Stanley LED Lighting

https://Stanley-ledlighting.com

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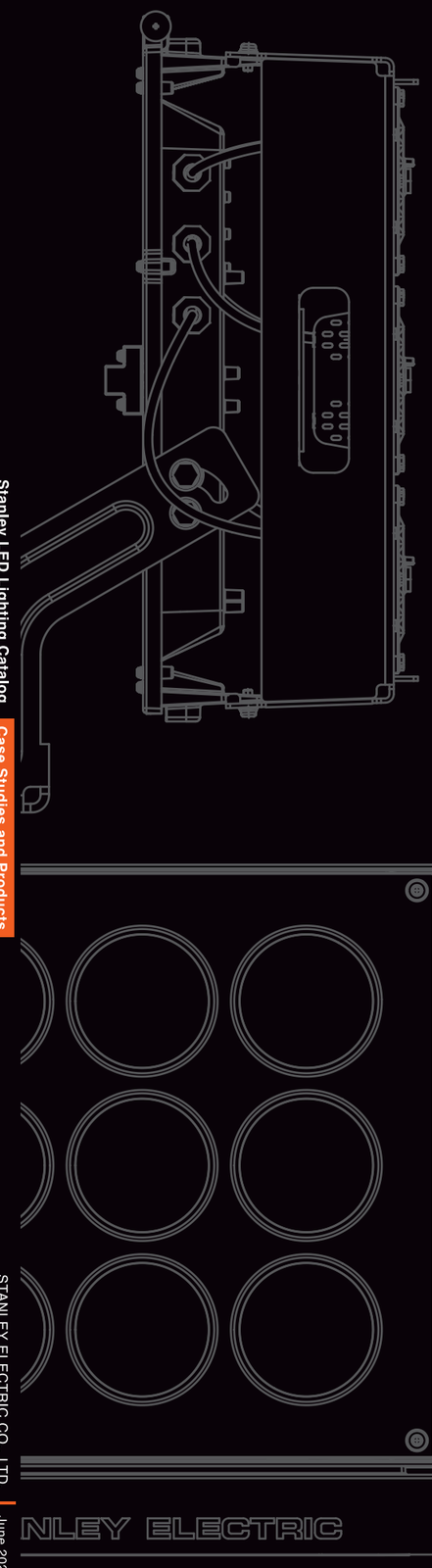
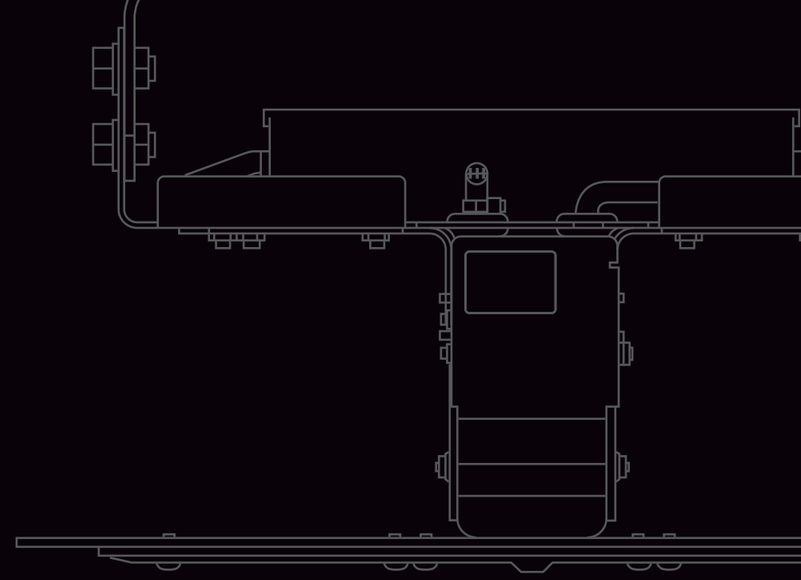
June 2024

Stanley LED Lighting Catalog
Case Studies and Products
STANLEY ELECTRIC CO., LTD.
June 2024





Stanley LED Lighting

Case Studies and Products

[LEDSFOCUS PRO]

[LEDSFOCUS]

[LEDSFOCUS GOLD]

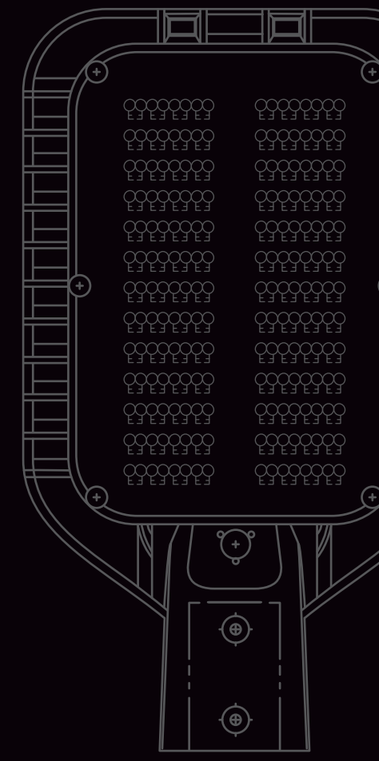
[LEDSFOCUS LINE]

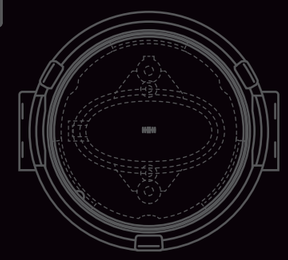
[LEDSROAD]

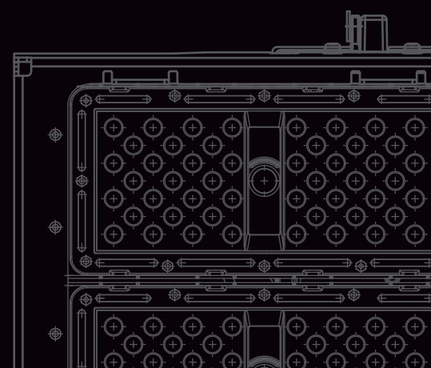
[LEDSHIGHMAST]

[LEDSHIGHBAY]

[LEDS HIGHLIGHT]







Stanley LED Lighting

Paving the way for a prosperous future through LED technology

Light the way for social development / Color life with light / Light for a brighter and safer world

Bringing color to every place. To realize this passion, Stanley Electric creates powerful new light by combining our automotive lamps, which require high reliability and excellent light distribution technology, with that of cutting-edge LED devices.

Reliability and dependable technology

Stanley Electric was founded in 1920 to manufacture and sell automotive light bulbs. Today, the company possesses an unwavering market share in the automotive lamp field. In 1976, long before LEDs were widely known to the public, we succeeded in commercializing the world's first high-luminance LEDs. Since then, we have continued to lead the market based on half a century of research and cultivated technologies.

Stanley's LED lighting in popular demand

Lights that watch over our lives and the safety of urban environments. Lights that delight people's eyes, and lights that add color to tradition. Lights that operates in harsh environments such as heat or heavy rain. Technology based on experience and an unwavering dedication to quality. We are committed to developing the highest quality products worldwide to bring light to every corner of society.

CONTENTS

4 Areas to Convey Light

Adding beauty and color to urban activities,
making it brighter and safer, improving work efficiency,
and withstanding the harshest of environments.
Stanley Electric's LED lighting lineup is divided into four areas
of high quality light suitable for various situations.

3 LEDSHIGHMAST
Special Outdoor Lighting

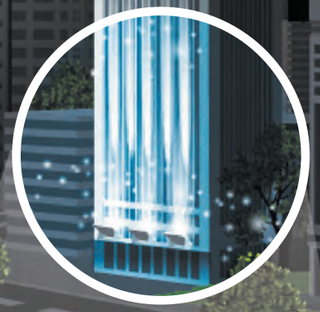
Providing long-term and powerful light to enable safe operations in wide open spaces, even in harsh conditions with seawater nearby.

Outdoor LED Floodlight
■LLF0059A P. 63–64

Outdoor LED Floodlight
■LLF0011A P. 65–66

Outdoor LED Floodlight
■LLF0012A P. 67–68

1 LEDSFOCUS
Landscape Lighting



Illuminating from long distances and emphasizing the sharp lines found in landmarks and buildings.

LEDSFOCUS PRO
LED floodlight with narrow light distribution
■LLF0111A (Full color 9-lens) P. 25–26
LED floodlight with ultra-narrow light distribution
■LLF0111A (9-lens) P. 27–30
■LLF0112A (4-lens) P. 31–34
■LLF0113A (1-lens) P. 35–37

NEW

LEDSFOCUS
LED floodlight with ultra-narrow light distribution
■LLM0545A P. 41–42

LED spotlight with ultra-narrow light distribution
■LLM0854A P. 43–44

LEDSFOCUS GOLD
LED floodlight with ultra-narrow light distribution
■LLF0111A ■LLF0112A ■LLF0113A P. 47–48
■LLM0545A P. 49
Outdoor LED floodlight
■LLF0059A P. 50

LEDSFOCUS LINE
LED linear lighting
■LLM1389A P. 51–52

2 LEDSROAD
Road Lighting

Providing the right kind of light where and when needed to facilitate safe driving even under severe road conditions such as heat or heavy rain.

LED road lighting
■LLF0016A P. 55–56
■LLF0139A P. 57–58

■LLF0017A P. 59–60

4 LEDSHIGHBAY
Indoor Maintenance-Free Lighting

Slim, lightweight, and with even higher efficiency, making easy-to-use, maintenance-free LED lighting a reality.

LED high bay lighting
■LLF0058A P. 71–72

LED lighting under eaves
■LLF0040A P. 73–74

LED lighting for fish farming
■LLF0110A P. 75–76

5 LEDS HIGHLIGHT

We have achieved a smart guide using light with a compact body and a drawing design that adapts to various situations.

LED drawing unit
■LLF1546A P. 77–78

NEW

LEDSFOCUS series

Creating beautiful scenery and stunning effects

The LED expert Stanley Electric offers high-quality landscape lighting LEDSFOCUS, which demonstrates excellent performance even in harsh environments and has ultra-narrow light distribution angles that can be selected according to various lighting situations. A wide variety of colors, including the Stanley Electric original gold color, is available for all purposes with a flexible and detalled lineup. LEDSFOCUS will enhance the beauty of the scenery and produce a breathtaking view.

Long distance light
LEDSFOCUS

The lineup includes thin, lightweight models that specialize in long-distance illumination and can be easily integrated into multiple installations and other units, as well as spotlight models.

High performance
LEDSFOCUS PRO

Top quality models that can illuminate various kinds of objects with accuracy. (Power source is built in)

FULL COLOR & Dimmable Type NEW

Full color type & dimmable type are new additions to the line-up. (Power source is built in)

Full Color

Dimmable

Golden light
LEDSFOCUS GOLD

Original models that uses Stanley Electric's proprietary phosphor blending technology to create vivid, unique gold-colored light.

LED Linelight
LEDSFOCUS LINE

Provides clear-cut linear light with very compact body.

– LEDSFOCUS Lighting Case Study ① –

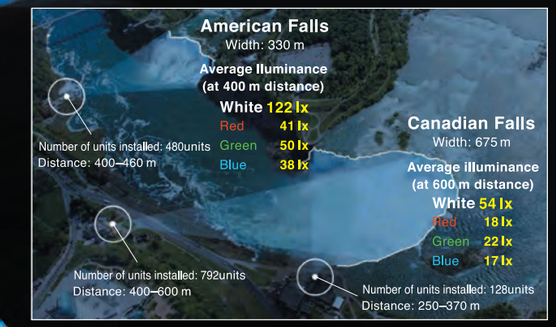
Niagara Falls

Location: New York, United States/Ontario, Canada
Client: Niagara Parks Commission
Lighting Agent: Salex Inc. / System Equipment: Scene Works / Installation: ECCO Electric Ltd
Design Engineering: MULVEY & BANANI INTERNATIONAL INC.

54 lx on the surface of the falls 600 meters away

In 2014, the Niagara Parks Commission put out a public tender for completely new lighting facilities to replace the aging xenon short-arc lamps that had been in use since 1997. Stanley Electric formed a project team with its Canadian lighting agent, Salex, and three other companies ※1 to submit a bid. Our proposal was accepted in March 2016, and in November 2016, installation of the new system, was completed. Our achievements in automotive lighting and electrical components received high marks for meeting reliability requirements in terms of withstanding the harsh conditions of winter and safety standard requirements. The LED floodlights, created using Stanley's proprietary optical design, achieved significant electricity savings in the lighting equipment. Compared with the 4 kW xenon arc lamps used in the previous system, our LED floodlights cut power consumption by around 60%.※2 The Niagara Parks Commission estimates that the floodlights will last for more than 20 years. In terms of color expression as well, where the xenon arc lamps used four color filters to create different colors, our LED floodlights are able to create more than 16.77 million colors using a combination of four colors and dimmer controls. This has made it possible to produce new color effects.

※1. Project team comprising Salex (lighting agent), Scene Works (system equipment), ECCO Electric (installation), MULVEY & BANANI (design engineering), and Stanley Electric.
※2. Includes electricity consumption of auxiliary equipment related to the lighting system.



ADOPTED PRODUCT
LEDSFOCUS [LLM0545A] P. 41–42

Latest high-end model
LEDSFOCUS PRO
[LLF0111A] P. 27–30

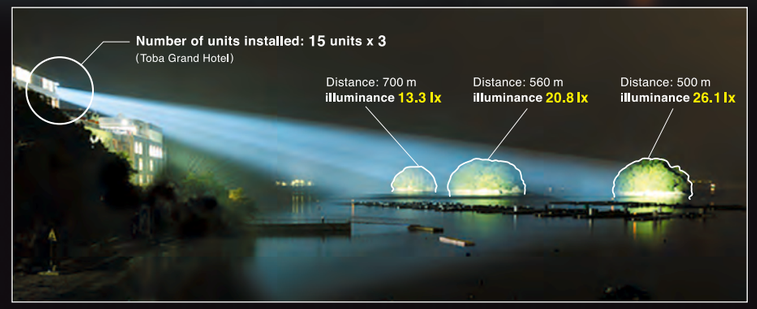
– LEDSFOCUS Lighting Case Study ② –

Mitsushima Islands

Location: Toba, Mie Prefecture, Japan
Client: Association for the Revitalization of Obama Inn Town, Toba City
Planner: LaPORTA

15 LED floodlights shine 13 lx onto islands 700 meters away

In a project to promote the appeal of Toba in Mie Prefecture, our floodlights light up the famously scenic beauty of the Mitsushima Islands off the shore of Toba at night, creating a magical view. Narrow-angle light is used to illuminate the three islands 500–700 meters from the shore. The pinpoint accuracy with which the islands are lit up enables clear, bright illumination without affecting vessels in the vicinity.



ADOPTED PRODUCT
LEDSFOCUS [LLM0545A] P. 41–42

Latest high-end model
LEDSFOCUS PRO
[LLF0111A] P. 27–30

– LEDSFOCUS Lighting Case Study ③ –

Nippon Budokan

Location: Chiyoda-ku, Tokyo
Client: Nippon Budokan Foundation
Lighting design: Motoko Ishii Lighting Design Inc.

Bringing to life the concept by world-renowned lighting designer Motoko Ishii: The sacred peak of Mount Fuji bathed in the light of the full moon

Completed in 1964, Nippon Budokan is used for prestigious Japanese budo (martial arts) tournaments and other various events. The lighting design, the work of world-renowned lighting designer Motoko Ishii brings to life the concept of "the sacred peak of Mount Fuji bathed in the light of the full moon. MOTOKO ISHII LIGHTING DESIGN consulted with us about reducing the sizes of the floodlights and about the light distribution and other factors to realize their concept, and, after repeated prototyping and on-site trials, our products were adopted. The roof is illuminated with a total of 128 floodlights using four custom-built types based on Stanley's LEDSFOCUS PRO 4-lamp model, realizing the designer's image of the sacred peak of Mount Fuji basking in the light of the full moon.The entire circumference of the giboshi (sacred gem) on the roof's tip, 47 meters from the edge, is bathed in a sublime gold light with 16 LEDSFOCUS GOLD 4-bulb floodlights.

Roof: LEDSFOCUS 4-Lamp floodlight x 128 units. Illumination distance: 2–50 m.
Giboshi: LEDSFOCUS GOLD 2.5° x 16 units. Illumination distance: 47 m.

ADOPTED PRODUCT
LEDSFOCUS PRO
[LLF0112A]
P. 31–34

ADOPTED PRODUCT
LEDSFOCUS GOLD
[LLF0112A GOLD]
P. 47–48

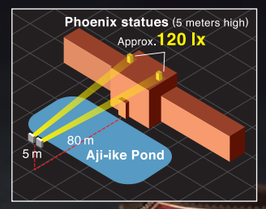
– LEDSFOCUS Lighting Case Study ④ –

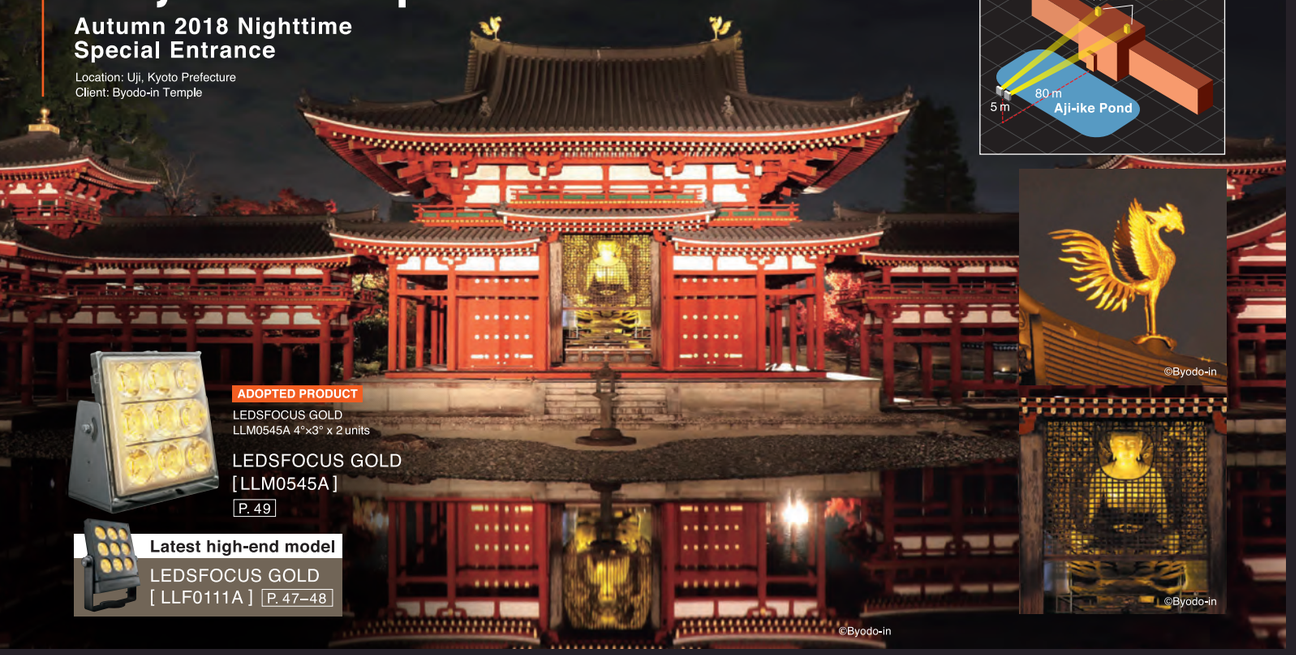
The Phoenix and Amitabha Statue in Byodo-in Temple

Autumn 2018 Nighttime Special Entrance

Location: Uji, Kyoto Prefecture
Client: Byodo-in Temple

Our gold floodlights were used to light up the statue of Amitabha in the Phoenix Hall of World Heritage-listed national treasure Byodo-in Temple and the two phoenix figures on the hall's roof. The entire statue of the seated Amitabha was evenly illuminated with two types of LED spotlights with ultra-narrow light distribution trained on it from inside the hall, achieving an illuminance of 180 lx. For the phoenixes, ultra-narrow angle LED floodlights installed 80 meters away on the opposite bank of the pond allowed only the phoenix figures to be lit up with pinpoint precision, achieving a high illuminance of 120 lx.





ADOPTED PRODUCT
LEDSFOCUS GOLD
LLM0545A 4°×3° x 2 units

LEDSFOCUS GOLD
[LLM0545A]
P. 49

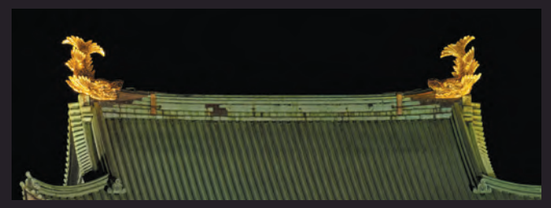
Latest high-end model
LEDSFOCUS GOLD
[LLF0111A] P. 47–48

– LEDSFOCUS Lighting Case Study ⑤ –

Nagoya Castle

Golden Tiger-Fish light up on the night of harvest moon

Location: Nagoya, Aichi Prefecture
Photograph: Akira Kuroda



The Golden Tiger-Fish (Kinshachi), the symbol of Nagoya Castle, are lit up only on the night of the harvest moon. The pinpoint illumination on the Golden Tiger-Fish create a wonderful collaboration with the harvest moon.

ADOPTED PRODUCT
LEDSFOCUS GOLD 2.5° x 15 units

LEDSFOCUS GOLD
[LLF0111A GOLD]
P. 47–48

– LEDSFOCUS Lighting Case Study ⑥ –

Yomiuri Land Jewellumination

Resonance of Gold and Birthstone

Location: Inagi, Tokyo
Producer: Motoko Ishii
Lighting design: Motoko Ishii Lighting Design Inc.

An annual event held from autumn to spring at Yomiuri Land, one of Japan's leading leisure facilities located in the hills of Tama in western Tokyo, Jewellumination is an event that adorns the sky with fantastical lighting and illumination. The illumination in gold and jewel tones, which can only be seen here, are produced by world-renowned lighting designer Motoko Ishii and captivate all who come to see them. For the Ferris Wheel, a combination of narrow-angle to medium-angle floodlights attached to a stand 25 meters away and to the left and right braces of the Ferris Wheel made it possible to light up the entire 58-meter diameter of the wheel evenly.The roof of the merry-go-round is illuminated in a fantastical way by floodlights installed at the park's entrance, 70 meters away. The fountain is located on the island inside the flowing pool. Floodlights installed pool-side 14 meters away turn the water of the fountain into a splendid gold.

Ferris Wheel: LEDSFOCUS GOLD 2.5° x 8 units
LEDSFOCUS GOLD 10° x 12 units
LEDSFOCUS GOLD 20° x 2 units
LEDSFOCUS GOLD 30° x 4 units
Illumination distance: 9–56 m.
Merry-go-round: LEDSFOCUS GOLD 3° x 4 units. Illumination distance: 70 m.
Fountain: LEDSFOCUS GOLD 10° x 3 units. Illumination distance: 14 m.

ADOPTED PRODUCT
LEDSFOCUS GOLD
[LLF0111A GOLD]
P. 47–48

– LEDSFOCUS Lighting Case Study ⑦ –

Notojima Aquarium

Location: Nanao, Ishikawa Prefecture

LEDSFOCUS PRO has been chosen for the lighting in the huge tank for whale sharks at Notojima Auarium. Along with the ultra-narrow light angle, a combination of LEDSFOCUS PRO units at different angles are used to light the giant water tank to achieve the lighting needed for the exhibit called the Light Curtain.

ADOPTED PRODUCT
LLF0111A 6500K 2.5° x 18 units
(Four of them are blinking to express sunlight filtering through trees)
LLF0111A 6500K 3° x 4 units
LLF0111A 6500K 10° x 8 units
LEDSFOCUS PRO LLF0111A x Total of 30 units

LEDSFOCUS PRO
[LLF0111A] P. 27–30

– LEDSFOCUS Lighting Case Study ⑧ –

Ginza Kabukiza Theater

Location: Chuo-ku, Tokyo Owner: Shochiku Co., Ltd. and Kabushiki Gaisha Kabukiza
Lighting Design: Motoko Ishii, Akari-Lisa Ishii, and Motoko Ishii Lighting Design Inc.

World-renowned lighting designers Motoko Ishii and Lisa Akari Ishii designed the light-up of Kabukiza Theater, home of Japan's traditional kabuki performing arts. Light from LEDSFOCUS floodlights, installed 130 meters away on the top floor of Kabukiza Tower behind the theater, illuminates the giant roof, giving the impression of moonlight bathing the theater. Dimmer control of the Kabukiza's custom LED lighting is used to create different effects for the different seasons.

ADOPTED PRODUCT
Custom-specification LED floodlights

Latest high-end model
LEDSFOCUS PRO
[LLF0111A] P. 27–30

– LEDSFOCUS Lighting Case Study ⑨ –

Zenkoji Temple

The 17th Nagano Tomyo Festival Special Lighting at the Main Temple Building

Location: Nagano, Nagano Prefecture
Organizer: Nagano Tomyo Lantern Festival Organizing Committee
Co-organizer: Nagano Junior Chamber of Commerce
Lighting design: Motoko Ishii Lighting Design Inc.

A new Nagano Tomyo Lantern Festival began in 2004 to commemorate the holding of the Nagano Winter Olympics in 1998.The light-up of Zenkoji Temple, the symbol of the Lantern Festival, is the work of world-renowned lighting designer Motoko Ishii.For the special light-up of Zenkoji's main worship hall at the 17th Nagano Tomyo Lantern Festival, 31 LEDSFOCUS GOLD floodlights bathed the temple in gold light, adorning the winter night sky of Nagano.

ADOPTED PRODUCT
LEDSFOCUS GOLD
[LLM0545A]
P. 49

Latest high-end model
LEDSFOCUS GOLD
[LLF0111A] P. 47–48

– LEDSFOCUS Lighting Case Study ⑩ –

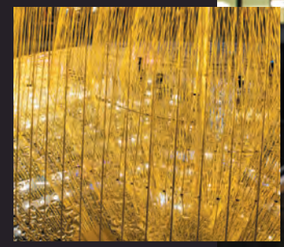
Chords of Light Christmas Tree, Paddington Central

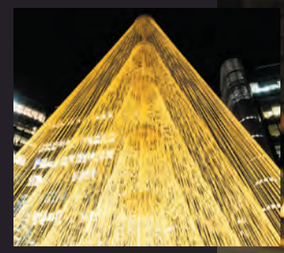
Location: London, UK
Installation: Tangent
Photography: Holly Wren

This Christmas tree at Paddington Central was designed by London-based design engineering studio Tangent. The contemporary, sculpture-like Christmas tree was installed for Christmas 2019 on the stage of the complex's amphitheater and lit up by 32 LED floodlights encircling the stage. Gold light from the floodlights was cast onto the 700 white wires strung up in five conical layers that formed the shape of the Christmas tree. The complex layering of wires and color created visual effects that looked different from different vantage points.

ADOPTED PRODUCT
LEDSFOCUS LLM0854A x 32 units
LEDSFOCUS [LLM0854A] P. 43–44

Latest high-end model
LEDSFOCUS GOLD
[LLF0113A] P. 47–48





– LEDSFOCUS Lighting Case Study ⑪ –

Herz Jesu Kirche

Location: Düsseldorf, Germany
Client: Herz Jesu Kirche
Lichtkuppel Herz Jesu Kirche Dusseldorf/ Germany Artist Klaus H.R.Gendrung/ mo2 Photography A.Aengevelt dus-illuminated ®

The church's spire, which was lost to the ravages of World War II, was recreated with light. Eight floodlights placed at about 8-meter intervals were focused on a single point 70 meters from the light source. The rays of 5,700K light brought splendid new life to the Düsseldorf nightscape.

ADOPTED PRODUCT
LEDSFOCUS LLM0545A x 8 units
LEDSFOCUS [LLM0545A]
P. 41–42

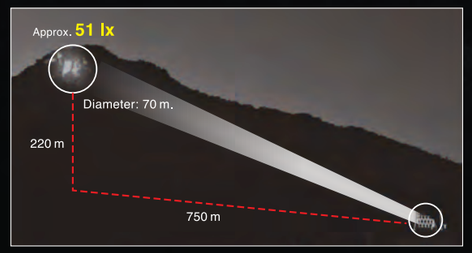
Latest high-end model
LEDSFOCUS PRO
[LLF0111A] P. 27–30

– LEDSFOCUS Lighting Case Study ⑫ –

Fire Safety Warning Sign on Mt. Shiroyama, Gohara Town

Location: Kure, Hiroshima Prefecture

Our floodlights light up characters reading "hi no yojin" -a fire safety warning- written on the rock face near the peak of the 420-meter-high Mt. Iwayama (also known as Mt. Shiroyama). During Japan's Warring States period (15th–16th centuries), a castle stood atop Mt.Shiroyama. The characters "hi no yojin" (look out for fire) were apparently written on the rock face by the local volunteer fire brigade in 1939 to raise awareness among the town's residents. The illumination of the writing was realized by the determination of a group of local volunteers. Thirteen 2.5° narrow-angle LED floodlights with a color temperature of 6,500K were installed. The distance from the light source to the rock is 752 meters, at an angle of elevation of 17°. The brightly lit characters -eighteen meters high and five meters across- continue to watch over the town today, raising awareness of fire safety.



ADOPTED PRODUCT
LEDSFOCUS
LLM0545A x 13 units

LEDSFOCUS
[LLM0545A]
P. 41–42

Latest high-end model
LEDSFOCUS PRO
[LLF0111A] P. 27–30

– LEDSFOCUS Lighting Case Study ⑬ –

Shiraito Falls World Heritage Site

Location: Fujinomiya, Shizuoka Prefecture
Client: City of Fujinomiya

Shiraito Falls, which form part of the UNESCO World Cultural Heritage listing for Mt. Fuji, were lit up to coincide with the season of autumn leaves. The three sides of this 20-meter-high, 150-meter-wide waterfall, known as one of Japan's most beautiful cascades, create an arch shape that presents an other-worldly image. Seven floodlights (2.5° and 3°) have been installed on the observatory on the right bank to light up the falls from a distance of 70 meters. Four 5° floodlights have also been installed in the visitor area in front of the waterfall's basin and are trained on the area of the falls that has the most water, 60 meters away. A combination of color temperatures ranging from 3,000K to 6,500K and gold light, together with the autumn leaves, creates a lively color show.

ADOPTED PRODUCT
LEDSFOCUS PRO LLF0111A, LEDSFOCUS GOLD LLF011
LEDSFOCUS LLM0545A1A Total of 11 units

LEDSFOCUS PRO
[LLF0111A] P. 27–30

LEDSFOCUS GOLD
[LLF0111A GOLD] P. 47–48

LEDSFOCUS
[LLM0545A] P. 41–42

– LEDSFOCUS Lighting Case Study ⑭ –

Shachi on the Roof of Kokura Castle

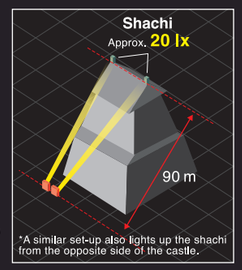
Location: Kitakyushu, Fukuoka Prefecture
Client: City of Kitakyushu
Lighting design: Miki Matsushita Lighting Design

Kokura Castle is a well-known edifice that Hosokawa Tadaoki, who fought on the side of the Eastern Army at the Battle of Sekigahara in 1600, took seven years to build, starting in 1602. The castle tower, which burned down in a fire in 1871, was rebuilt in 1959, and a new lighting scheme was implemented during renovations in 2019.The distance between the highest shachi (mythical dolphin-like creature that often adorns the roofs of Japanese castles) on the tower and the bottom of the rock wall is 47.5 meters. A total of four 3° narrow-angle LED floodlights (color temperature 5,000K) installed on poles in the open spaces in front of and behind the castle are trained on the 2.3-meter-tall male and female shachi on opposite ends of the roof, trapping them in their light from both sides.

ADOPTED PRODUCT
LEDSFOCUS LLM0545A
3° 5,000K x 4 units

LEDSFOCUS
[LLM0545A]
P. 41–42

Latest high-end model
LEDSFOCUS PRO
[LLF0111A] P. 27–30



*A similar set-up also lights up the shachi from the opposite side of the castle.

– LEDSFOCUS Lighting Case Study ⑮ –

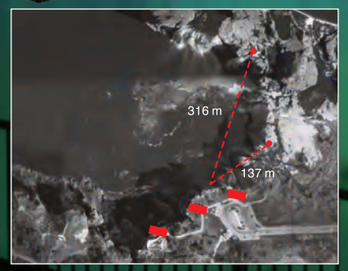
Shoshone Falls

Location: Idaho, USA
Client: Southern Idaho Tourism

Shoshone Falls on Snake River is a famous waterfall located at an altitude of nearly 1,000 meters above sea level and boasts a height difference of 65 meters and a width of 282 meters. Illumination points 137 m to 316 m away are divided into 12 points and illuminated by a total of 36 LEDSFOCUS PRO full color type units. Initially started for a limited time, we are planning to make the illumination permanent in the future.

ADOPTED PRODUCT
LEDSFOCUS PRO LLF0111A
FULL COLOR x 36 units

LEDSFOCUS PRO
[LLF0111A] FULL COLOR
P. 25–26



– LEDSFOCUS Lighting Case Study ⑯ –

The Rama VIII Bridge

Bangkok, Thailand

The Rama VIII Bridge spans the Chao Phraya River, which runs through the center of Thailand's capital city of Bangkok. The bridge, with its asymmetrical sloped design, has become a Bangkok landmark. The pylon, cables, and monument are lit up in gold.120 LLF0059A floodlights were used for the pylon and cables and 30 LLM0545A for the monument, bathing the entire bridge in an even gold light.

ADOPTED PRODUCT
Pylon/Cables: LEDSFOCUS GOLD LLF0059A x 120 units
Monument: LEDSFOCUS GOLD LLM0545A x 30 units

LEDSFOCUS GOLD
[LLF0059A] P. 50

LEDSFOCUS GOLD
[LLM0545A] P. 49

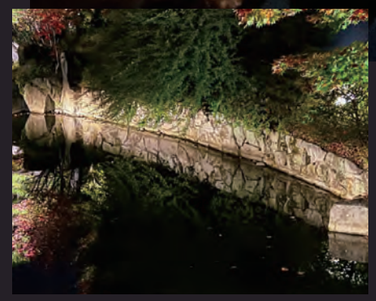
Latest high-end model
LEDSFOCUS GOLD
[LLF0111A] P. 47–48

– LEDSFOCUS Lighting Case Study ⑰ –

Mejiro Garden

Fall 2021 Autumn Leaves Illumination (Limited Time)

Location: Toshima-ku, Tokyo



The Mejiro Garden is a Japanese garden with a circular path through which visitors can enjoy the scenery of the four seasons. The garden is illuminated every year during the season of autumn leaves and is open at night for a limited period. Every year, students from a lighting design school illuminate the garden as a competition.

ADOPTED PRODUCT
LEDSFOCUS PRO LLF0113A
3000K (+ spread lens) x 2 units
LEDSFOCUS PRO LLF0113A
2.5° 3000K x 1 unit

LEDSFOCUS PRO
[LLF0113A] P. 35–37

– LEDSFOCUS Lighting Case Study ⑱ –

Nihonbashi Takashimaya Department Store

Location: Chuo-ku, Tokyo
Design: Nihon Sekkei + Plantec Architects JV
Lighting Design: Uchihara Creative Lighting Design Inc.

Coinciding with the completion of the new building, 37 narrow-angle LED floodlights were installed, together with 12 floodlights on the East building. The stylish edge of the building stands out prominently with the facade lighting.

ADOPTED PRODUCT
LEDSFOCUS
LLM0545A x 49 units

LEDSFOCUS
[LLM0545A]
P. 41–42

Latest high-end model
LEDSFOCUS PRO
[LLF0111A] P. 27–30

– LEDSFOCUS Lighting Case Study ⑲ –

Haneda Innovation City Hotel Courtyard

Location: Ota-ku, Tokyo
Developer: Haneda Mirai Development Co., Ltd.
Overall Plan: Kajima Corporation
Design & Construction: Kajima Corporation, Daiwa House Industry Co., Ltd.
Lighting Design: Tomoru design, Meguro inc.
Provided By: Lumenjapan
Photography: Yo Masunaga

ADOPTED PRODUCT LEDSFOCUS PRO LLF0112A x 13 units

LEDSFOCUS PRO [LLF0112A] P. 31–34

– LEDSFOCUS Lighting Case Study ⑳ –

Statue of Jeanne d'Arc

Location: Toulouse, France

ADOPTED PRODUCT
LEDSFOCUS
LLM0545A x 1 units

LEDSFOCUS
[LLM0545A]
P. 41–42

Latest high-end model
LEDSFOCUS PRO
[LLF0111A] P. 27–30

– LEDSFOCUS Lighting Case Study ㉑ –

Mitsui Garden Hotel Ginza Premier

Location: Chuo-ku, Tokyo
Client: Mitsui Fudosan Co., Ltd.
Design & Construction: Mitsui Fudosan Facilities Co., Ltd.

ADOPTED PRODUCT
LEDSFOCUS
LLM0545A x 5 units

LEDSFOCUS
[LLM0545A]
P. 41–42

Latest high-end model
LEDSFOCUS PRO
[LLF0111A] P. 27–30

– LEDSFOCUS Lighting Case Study ㉒ –

Building in Zone Industrielle de Mozinor

Location: Outskirts of Paris, France

ADOPTED PRODUCT
LEDSFOCUS
[LLM0854A]
P. 41–42

Latest high-end model
LEDSFOCUS PRO
[LLF0113A] P. 35–37

– LEDSFOCUS Lighting Case Study ㉓ –

Jade Pagoda

Location: Mandalay, Myanmar

ADOPTED PRODUCT

LEDSFOCUS
[LLM0545A]
P. 41–42

Latest high-end model

LEDSFOCUS PRO
[LLF0111A] P. 27–30

– LEDSFOCUS Lighting Case Study ㉔ –

That Luang

Location: Vientiane, Laos

ADOPTED PRODUCT

LEDSFOCUS GOLD
[LLM0545A]
P. 49

Latest high-end model

LEDSFOCUS GOLD
[LLF0111A] P. 47–48

– LEDSFOCUS Lighting Case Study ㉕ –

Patuxai

Location: Vientiane, Laos

ADOPTED PRODUCT

LEDSFOCUS
[LLM0545A]
P. 41–42

Latest high-end model

LEDSFOCUS PRO
[LLF0111A] P. 27–30

– LEDSFOCUS Lighting Case Study ㉖ –

MEIDOH Co.,LTD.
Nishinakayama Factory

Location: Toyota, Aichi Prefecture
Client: MEIDOH Co., Ltd.

ADOPTED PRODUCT

LEDSFOCUS PRO LLF0111A
6° 5700K × 5 units
LEDSFOCUS PRO LLF0111A
2.5° 4000K × 2 units

LEDSFOCUS PRO
[LLF0111A] P. 27–30

Sophisticated high-end model

LEDSFOCUS PRO

LED floodlight with ultra-narrow light distribution | LLF0111A LLF0112A LLF0113A

Lichtkuppel Herz Jesu Kirche Dusseldorf/Germany Artist Klaus H.R.Gendrung/
mo2 Photography A.Aengevelt dus-illuminated ®

LEDSFOCUS PRO

● Full Color Type ● ON/OFF Type ● Dimmable Type

Heat resistance	Vibration resistance 1G	Noise resistance	UV resistance	Heavy salt resistance	High waterproof IP66

FULL COLOR & Dimmable Type NEW

Full color type (LLF0111A) & dimmable type (LLF0111A, LLF0112A) have been newly added to the line-up.

Full Color

Dimmable

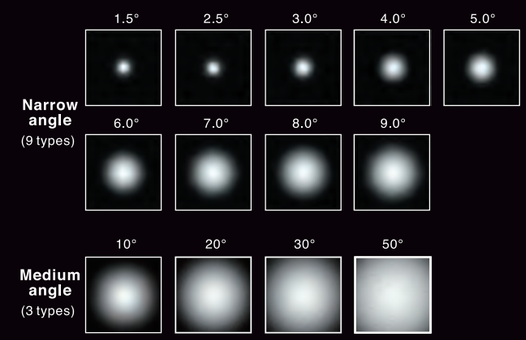
Wide range of variations to meet every need

Light distribution from ultra-narrow to medium angles effectively harnesses the light from the LEDs, providing a lighting fixture that can be used for a wide range of lighting uses and light shows. The LEDSFOCUS PRO delivers light to places it has never been able to reach before. Our unique optical system delivers beautiful projections with control of light distribution angles in units of 1° and provides a wide variety of colors to create beautiful light displays that are perfect for a wide range of scenarios.

Ultra-narrow light distribution	1/2 beam angle, ultra-narrow light distribution with a minimum of 1.5° enables bright illumination at distant objects.
Light distribution control	Light distribution can be fine-tuned by units of 1°, from 1.5 to 10°, accurately casting light on objects. In addition,a high output medium angle lightdistribution of 10 to 50° is available for various applications. ※The full color type has a narrow-angle light distribution of 5° and a medium-angle light distribution of 10 to 30°.
Beautiful light projection	Our unique LED / lens design technology can achieve beautiful and uniform light projection.
Heavy duty	The waterproof and dustproof structure of IP66 as well as the excellent heavy salt resistance specifications, provide maximum performance in harsh environments.
Customizable	Light distribution, light color, size, body color, and optional parts can be freely customized, making this product suitable for any scenario.
Expressive power (Full Color Type)	Light of various colors, including pastel colors, can be expressed by using the RGBW light source.

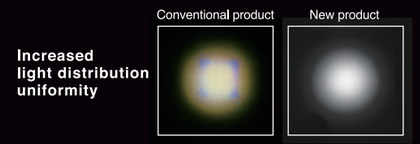
A variety of light distribution angles to meet every application (LLF0111A)

Huge variation achieved with 1° unit adjustments (LLF0111A)



An extensive range of colors is also available (LLF0111A)

Visualization of light (LLF0111A)



LEDSFOCUS PRO LLF0111A FULL COLOR

Heat resistance

Vibration resistance 1G

Noise resistance

UV resistance

Heavy salt resistance

High waterproof IP66

Specifiction

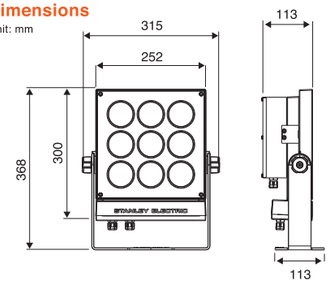
Body: Aluminum die casting
Front cover: Polycarbonate
Secondary lens: Acrylic
Ambient temperature: -25–50 °C
Waterproof and dustproof: IP66
Light source life: 50,000 hours (lumen maintenance factor 70%)
Power supply: Built in
Weight: 7.3 kg
Control: DMX

	Luminous flux	Rated power consumption
narrow angle (5°)	2,270 lm	65 W
medium angle (10~50°)	2,080 lm	65 W

Rated power consumption is at AC 100 V

Dimensions

Unit: mm

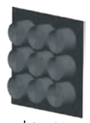


Color

Charcoal grey (Standard color)

Option

Spread lens



Louver

LLF0111A / LWWD065 / F1X / □□ / S / BK / □ / C / □□ / 1

Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f

a : Installed type [S] = Standard installation
b : Body color [BK] = Charcoal grey
c : Control [G] = DMX dimming (Curve: Linear)
Control [T] = DMX dimming (Curve: Linear with terminating resistor)
d : Painting specification [C] = Heavy-duty salt resistance
e : Standard [UL] = UL standard compliant
Standard [CE] = CE and PSE standards compliant
f : Ver. [1] = Version 1

※The Part No. in the table below only indicates the light distribution angle, a, b, c, d and e.

Specification		UL standard		CE and PSE standards	
1/2 Beam angle 5°	Part No.	05/S/BK/G/C/UL	05/S/BK/T/C/UL	05/S/BK/G/C/CE	05/S/BK/T/C/CE
	Center luminous intensity (cd)	178,600	178,600	178,600	178,600
	Luminous flux (lm)	2,270	2,270	2,270	2,270
	Rated power consumption (W)	65	65	65	65
	Control	DMX	DMX (with terminating resistor)	DMX	DMX (with terminating resistor)
1/2 Beam angle 10°	Part No.	10/S/BK/G/C/UL	10/S/BK/T/C/UL	10/S/BK/G/C/CE	10/S/BK/T/C/CE
	Center luminous intensity (cd)	80,800	80,800	80,800	80,800
	Luminous flux (lm)	2,080	2,080	2,080	2,080
	Rated power consumption (W)	65	65	65	65
	Control	DMX	DMX (with terminating resistor)	DMX	DMX (with terminating resistor)
1/2 Beam angle 20°	Part No.	20/S/BK/G/C/UL	20/S/BK/T/C/UL	20/S/BK/G/C/CE	20/S/BK/T/C/CE
	Center luminous intensity (cd)	20,000	20,000	20,000	20,000
	Luminous flux (lm)	2,080	2,080	2,080	2,080
	Rated power consumption (W)	65	65	65	65
	Control	DMX	DMX (with terminating resistor)	DMX	DMX (with terminating resistor)
1/2 Beam angle 30°	Part No.	30/S/BK/G/C/UL	30/S/BK/T/C/UL	30/S/BK/G/C/CE	30/S/BK/T/C/CE
	Center luminous intensity (cd)	9,600	9,600	9,600	9,600
	Luminous flux (lm)	2,080	2,080	2,080	2,080
	Rated power consumption (W)	65	65	65	65
	Control	DMX	DMX (with terminating resistor)	DMX	DMX (with terminating resistor)

Rated power consumptions under condition of AC 100 V. ※Values in this catalog are for reference only and are not guaranteed.

Shoshone Falls
Idaho, USA

A wide range of expressiveness achievable through full color lighting

LEDSFOCUS PRO **LLF0111A**

Heat resistance

Vlbration resistance 1G

Noise resistance

UV resistance

Heavy salt resistance

High waterproof IP66

Specifiction

Body: Aluminum die casting
Front cover: Polycarbonate
Secondary lens: Acrylic
Ambient temperature: -25–50 °C
Waterproof and dustproof: IP66
Light source life: 50,000 hours
(lumen maintenance factor 70%)
Power supply: Built in
Weight: Narrow-angle type (1.5–9°) 5.4 kg
[Dimmable type 5.6 kg]
Medium-angle type (10–50°) 6.4 kg
[Dimmable type 6.5 kg]

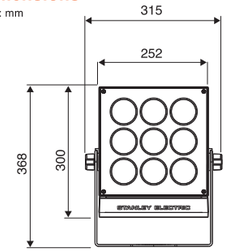
ON/OFF type	Luminous flux	Rated power consumption
Ultra narrow-angle (1.5°)	1,410 lm	32.5 W
Narrow-angle (2.5–9°)	197–1,820 lm	33.0–35.7 W
Medium-angle (10–50°)	3,490–5,050 lm	55.7 W

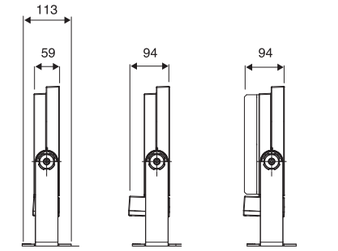
Dimmable type	Luminous flux	Rated power consumption
Narrow-angle (2.5–9°)	197–1,820 lm	33.2–37.1 W
Medium-angle (10–50°)	2,990–4,330 lm	47.4–48.3 W

Rated power consumption is at AC 100 V

Dimensions

Unit: mm





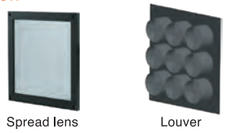
Narrow-angle (ON/OFF) | Narrow-angle (Dimmable) | Medium-angle (ON/OFF, Dimmable)

Narrow-angle (ON/OFF) | Narrow-angle (Dimmable) | Medium-angle (ON/OFF, Dimmable)

Color

Charcoal grey (Standard color)

Option



Spread lens | Louver

Illumination range	6500K	5700K	5000K	4000K	3000K	2700K	2200K	Red	Green	Blue	Gold
Beam Angle 1.5°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
30 / 0.84	—	—	1,500	—	—	—	—	—	—	—	—
50 / 1.4	—	—	560	—	—	—	—	—	—	—	—
100 / 2.8	—	—	140	—	—	—	—	—	—	—	—
500 / 14	—	—	5.6	—	—	—	—	—	—	—	—
1000 / 28	—	—	1.4	—	—	—	—	—	—	—	—
Beam Angle 2.5°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
30 / 1.2	1,200	1,200	1,200	1,200	1,100	940	820	240	800	71	900
50 / 1.9	420	420	420	420	380	340	300	86	290	26	320
100 / 3.8	110	110	110	110	95	85	74	22	72	6.4	81
500 / 19	4.2	4.2	4.2	4.2	3.8	3.4	3.0	0.86	2.9	0.26	3.2
1000 / 38	1.1	1.1	1.1	1.1	0.95	0.85	0.74	0.22	0.72	0.064	0.81
Beam Angle 3.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
30 / 1.4	860	860	860	860	770	700	620	170	580	52	700
50 / 2.3	310	310	310	310	280	250	220	63	210	19	250
100 / 4.5	77	77	77	77	69	63	55	16	53	4.7	63
500 / 23	3.1	3.1	3.1	3.1	2.8	2.5	2.2	0.63	2.1	0.19	2.5
1000 / 49	0.77	0.77	0.77	0.77	0.69	0.63	0.55	0.16	0.53	0.047	0.63
Beam Angle 4.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
30 / 2.0	500	500	500	500	450	390	340	100	340	30	410
50 / 3.3	180	180	180	180	160	140	120	37	120	11	150
100 / 6.6	45	45	45	45	41	35	31	9.2	31	2.7	37
500 / 35	1.8	1.8	1.8	1.8	1.6	1.4	1.2	0.37	1.2	0.11	1.5
1000 / 70	0.45	0.45	0.45	0.45	0.41	0.35	0.31	0.092	0.31	0.027	0.37

D (m) = Distance / Φ (m) = 1/2 Illuminance Beam

※Values in this catalog are for reference only and are not guaranteed.

Illumination range	6500K	5700K	5000K	4000K	3000K	2700K	2200K	Red	Green	Blue	Gold
Beam Angle 5.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
30 / 2.7	290	290	290	290	260	220	200	59	200	18	240
50 / 4.5	100	100	100	100	94	80	70	21	71	6.3	86
100 / 9.1	26	26	26	26	23	20	18	5.3	18	1.6	22
500 / 45	1.0	1.0	1.0	1.0	0.94	0.80	0.70	0.21	0.71	0.063	0.86
1000 / 91	0.26	0.26	0.26	0.26	0.23	0.20	0.18	0.053	0.18	0.016	0.22
Beam Angle 6.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
30 / 3.2	210	210	210	210	190	160	140	43	140	13	180
50 / 5.4	76	76	76	76	68	59	52	16	52	4.6	63
100 / 11	19	19	19	19	17	15	13	3.9	13	1.2	16
500 / 54	0.76	0.76	0.76	0.76	0.68	0.59	0.52	0.16	0.52	0.046	0.63
1000 / 108	0.19	0.19	0.19	0.19	0.17	0.15	0.13	0.039	0.13	0.012	0.16
Beam Angle 7.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
30 / 3.8	160	160	160	160	140	120	110	33	110	9.8	140
50 / 6.3	58	58	58	58	52	45	39	12	40	3.5	49
100 / 13	15	15	15	15	13	11	9.8	3.0	9.9	0.88	12
500 / 63	0.58	0.58	0.58	0.58	0.52	0.45	0.39	0.12	0.40	0.035	0.49
1000 / 126	0.15	0.15	0.15	0.15	0.13	0.11	0.098	0.030	0.099	0.009	0.12
Beam Angle 8.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
30 / 4.3	120	120	120	120	110	95	83	25	84	7.5	100
50 / 7.2	44	44	44	44	40	34	30	9.0	30	2.7	37
100 / 14	11	11	11	11	9.9	8.6	7.5	2.3	7.5	0.67	9.3
500 / 72	0.44	0.44	0.44	0.44	0.40	0.34	0.30	0.090	0.30	0.027	0.37
1000 / 143	0.11	0.11	0.11	0.11	0.099	0.086	0.075	0.023	0.075	0.007	0.093
Beam Angle 9.0°											
D(m) / Φ (m)	Center Beam Illuminance (lx)										
30 / 4.5	100	100	100	100	92	79	69	21	70	6.2	86
50 / 7.5	37	37	37	37	33	28	25	7.5	25	2.2	31
100 / 15	9.2	9.2	9.2	9.2	8.3	7.1	6.2	1.9	6.3	0.56	7.7
500 / 75	0.37	0.37	0.37	0.37	0.33	0.28	0.25	0.075	0.25	0.022	0.31
1000 / 150	0.092	0.092	0.092	0.092	0.083	0.071	0.062	0.019	0.063	0.006	0.077
Beam Angle 10°											
D (m) / Φ (m)	Center Beam Illuminance (lx) [ON/OFF] / [Dimmable]										
30 / 4.6	210 / 180	210 / 180	210 / 180	210 / 180	170 / 150	170 / 150	140 / 120	—	—	—	190 / 170
50 / 7.7	76 / 66	76 / 66	76 / 66	76 / 66	63 / 55	63 / 55	50 / 44	—	—	—	69 / 61
100 / 15	19 / 17	19 / 17	19 / 17	19 / 17	16 / 14	16 / 14	13 / 11	—	—	—	17 / 15
500 / 77	0.76 / 0.66	0.76 / 0.66	0.76 / 0.66	0.76 / 0.66	0.63 / 0.55	0.63 / 0.55	0.50 / 0.44	—	—	—	0.69 / 0.61
1000 / 154	0.19 / 0.17	0.19 / 0.17	0.19 / 0.17	0.19 / 0.17	0.16 / 0.14	0.16 / 0.14	0.13 / 0.11	—	—	—	0.17 / 0.15
Beam Angle 20°											
D (m) / Φ (m)	Center Beam Illuminance (lx) [ON/OFF] / [Dimmable]										
30 / 9.5	76 / 67	76 / 67	76 / 67	76 / 67	64 / 56	64 / 56	51 / 45	—	—	—	70 / 61
50 / 16	27 / 24	27 / 24	27 / 24	27 / 24	23 / 20	23 / 20	18 / 16	—	—	—	25 / 22
100 / 32	6.9 / 6.0	6.9 / 6.0	6.9 / 6.0	6.9 / 6.0	5.7 / 5.0	5.7 / 5.0	4.6 / 4.0	—	—	—	6.3 / 5.5
500 / 158	0.27 / 0.24	0.27 / 0.24	0.27 / 0.24	0.27 / 0.24	0.23 / 0.20	0.23 / 0.20	0.18 / 0.16	—	—	—	0.25 / 0.22
1000 / 317	0.069 / 0.060	0.069 / 0.060	0.069 / 0.060	0.069 / 0.060	0.057 / 0.050	0.057 / 0.050	0.046 / 0.040	—	—	—	0.063 / 0.055
Beam Angle 30°											
D (m) / Φ (m)	Center Beam Illuminance (lx) [ON/OFF] / [Dimmable]										
30 / 15	33 / 29	33 / 29	33 / 29	33 / 29	28 / 24	28 / 24	22 / 20	—	—	—	31 / 27
50 / 24	12 / 11	12 / 11	12 / 11	12 / 11	10 / 8.8	10 / 8.8	8.0 / 7.0	—	—	—	11 / 9.7
100 / 48	3.0 / 2.6	3.0 / 2.6	3.0 / 2.6	3.0 / 2.6	2.5 / 2.2	2.5 / 2.2	2.0 / 1.8	—	—	—	2.8 / 2.4
500 / 242	0.12 / 0.11	0.12 / 0.11	0.12 / 0.11	0.12 / 0.11	0.10 / 0.088	0.10 / 0.088	0.080 / 0.070	—	—	—	0.11 / 0.097
1000 / 484	0.030 / 0.026	0.030 / 0.026	0.030 / 0.026	0.030 / 0.026	0.025 / 0.022	0.025 / 0.022	0.020 / 0.018	—	—	—	0.028 / 0.024
Beam Angle 50°											
D (m) / Φ (m)	Center Beam Illuminance (lx) [ON/OFF] / [Dimmable]										
30 / 31	12 / 10	12 / 10	12 / 10	12 / 10	9.9 / 8.7	9.9 / 8.7	8.0 / 7.0	—	—	—	11 / 9.6
50 / 51	4.3 / 3.8	4.3 / 3.8	4.3 / 3.8	4.3 / 3.8	3.6 / 3.1	3.6 / 3.1	2.9 / 2.5	—	—	—	3.9 / 3.5
100 / 102	1.1 / 0.94	1.1 / 0.94	1.1 / 0.94	1.1 / 0.94	0.90 / 0.79	0.90 / 0.79	0.72 / 0.63	—	—	—	0.99 / 0.86
500 / 512	0.043 / 0.038	0.043 / 0.038	0.043 / 0.038	0.043 / 0.038	0.036 / 0.031	0.036 / 0.031	0.029 / 0.025	—	—	—	0.039 / 0.035
100000 / 1023	0.011 / 0.009	0.011 / 0.009	0.011 / 0.009	0.011 / 0.009	0.009 / 0.008	0.009 / 0.008	0.007 / 0.006	—	—	—	0.010 / 0.009

D (m) = Distance / Φ (m) = 1/2 Illuminance Beam

※Values in this catalog are for reference only and are not guaranteed.

■**Narrow-angle type** LLF0111A / LWWD035 / □□ / □ / □□ / S / BK / S / C / CE / 1
(Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f)

■**Medium-angle type** LLF0111A / LWWD056 / □□ / □ / □□ / S / BK / S / C / CE / 1
(Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f)

a : Installed type [S] = Standard installation
b : Body color [BK] = Charcoal grey
c : Control [S] = ON/OFF Control
d : Painting specification [C] = Heavy-duty salt resistance
e : Standard [CE] = CE/PSE
Standard [TS] = TIS
※Blue conforms only to CE standard.
※Medium-angle type 2200K conforms only to PSE.
f : Ver. [1] = Version 1

※The Part No. in the table below only indicates the light source color and light distribution angle.

ON/OFF type

Specification		6500K	5700K	5000K	4000K	3000K	2700K	2200K	Red	Green	Blue	Gold
■Narrow-angle type												
1/2 Beam angle 1.5°	Part No.	—	—	50/X/XN	—	—	—	—	—	—	—	—
	Center luminous intensity (cd)	—	—	1,790,000	—	—	—	—	—	—	—	—
	Luminous flux (lm)	—	—	1,270	—	—	—	—	—	—	—	—
	Rated power consumption (W)	—	—	32.8	—	—	—	—	—	—	—	—
1/2 Beam angle 2.5°	Part No.	65/X/VN	57/X/VN	50/X/VN	40/X/VN	30/X/VN	27/X/VN	22/X/VN	RE/N/VN	GR/N/VN	BL/N/VN	YE/N/VN
	Center luminous intensity (cd)	1,230,000	1,230,000	1,230,000	1,230,000	1,100,000	937,000	820,000	251,000	838,000	74,800	1,020,000
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W)	35.7	35.7	35.7	35.7	35.7	35.7	35.7	33.6	33.0	35.7	35.7
1/2 Beam angle 3°	Part No.	65/X/03	57/X/03	50/X/03	40/X/03	30/X/03	27/X/03	22/X/03	RE/N/03	GR/N/03	BL/N/03	YE/N/03
	Center luminous intensity (cd)	870,000	870,000	870,000	870,000	783,000	664,000	581,000	178,000	594,000	53,100	726,000
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W)	35.7	35.7	35.7	35.7	35.7	35.7	35.7	33.6	33.0	35.7	35.7
1/2 Beam angle 4°	Part No.	65/X/04	57/X/04	50/X/04	40/X/04	30/X/04	27/X/04	22/X/04	RE/N/04	GR/N/04	BL/N/04	YE/N/04
	Center luminous intensity (cd)	470,000	470,000	470,000	470,000	423,000	359,000	314,000	96,100	321,000	28,700	392,000
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W)	35.7	35.7	35.7	35.7	35.7	35.7	35.7	33.6	33.0	35.7	35.7
1/2 Beam angle 5°	Part No.	65/X/05	57/X/05	50/X/05	40/X/05	30/X/05	27/X/05	22/X/05	RE/N/05	GR/N/05	BL/N/03	YE/N/05
	Center luminous intensity (cd)	269,000	269,000	269,000	269,000	242,000	205,000	179,000	54,900	183,000	16,400	224,000
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W)	35.7	35.7	35.7	35.7	35.7	35.7	35.7	33.6	33.0	35.7	35.7
1/2 Beam angle 6°	Part No.	65/X/06	57/X/06	50/X/06	40/X/06	30/X/06	27/X/06	22/X/06	RE/N/06	GR/N/06	BL/N/06	YE/N/06
	Center luminous intensity (cd)	196,000	196,000	196,000	196,000	177,000	150,000	131,000	40,100	134,000	12,000	164,000
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W)	35.7	35.7	35.7	35.7	35.7	35.7	35.7	33.6	33.0	35.7	35.7
1/2 Beam angle 7°	Part No.	65/X/07	57/X/07	50/X/07	40/X/07	30/X/07	27/X/07	22/X/07	RE/N/07	GR/N/07	BL/N/07	YE/N/07
	Center luminous intensity (cd)	149,000	149,000	149,000	149,000	134,000	114,000	99,800	30,500	102,000	9,110	125,000
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W)	35.7	35.7	35.7	35.7	35.7	35.7	35.7	33.6	33.0	35.7	35.7
1/2 Beam angle 8°	Part No.	65/X/08	57/X/08	50/X/08	40/X/08	30/X/08	27/X/08	22/X/08	RE/N/08	GR/N/08	BL/N/08	YE/N/08
	Center luminous intensity (cd)	113,000	113,000	113,000	113,000	102,000	86,600	75,800	23,200	77,400	6,910	94,600
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W)	35.7	35.7	35.7	35.7	35.7	35.7	35.7	33.6	33.0	35.7	35.7
1/2 Beam angle 9°	Part No.	65/X/09	57/X/09	50/X/09	40/X/09	30/X/09	27/X/09	22/X/09	RE/N/09	GR/N/09	BL/N/09	YE/N/09
	Center luminous intensity (cd)	94,200	94,200	94,200	94,200	84,800	71,900	62,900	19,200	64,300	5,740	78,500
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W)	35.7	35.7	35.7	35.7	35.7	35.7	35.7	33.6	33.0	35.7	35.7
■Medium-angle type												
1/2 Beam angle 10°	Part No.	65/X/10	57/X/10	50/X/10	40/X/10	30/X/10	27/X/10	22/X/10	—	—	—	YE/N/10
	Center luminous intensity (cd)	189,000	189,000	189,000	189,000	157,000	157,000	126,000	—	—	—	173,000
	Luminous flux (lm)	4,840	4,840	4,840	4,840	4,030	4,030	3,230	—	—	—	4,430
	Rated power consumption (W)	55.7	55.7	55.7	55.7	55.7	55.7	55.7	—	—	—	55.7
1/2 Beam angle 20°	Part No.	65/X/20	57/X/20	50/X/20	40/X/20	30/X/20	27/X/20	22/X/20	—	—	—	YE/N/20
	Center luminous intensity (cd)	68,600	68,600	68,600	68,600	57,200	57,200	45,700	—	—	—	62,900
	Luminous flux (lm)	4,840	4,840	4,840	4,840	4,030	4,030	3,230	—	—	—	4,430
	Rated power consumption (W)	55.7	55.7	55.7	55.7	55.7	55.7	55.7	—	—	—	55.7
1/2 Beam angle 30°	Part No.	65/X/30	57/X/30	50/X/30	40/X/30	30/X/30	27/X/30	22/X/30	—	—	—	YE/N/30
	Center luminous intensity (cd)	30,100	30,100	30,100	30,100	25,000	25,000	20,000	—	—	—	27,600
	Luminous flux (lm)	4,840	4,840	4,840	4,840	4,030	4,030	3,230	—	—	—	4,430
	Rated power consumption (W)	55.7	55.7	55.7	55.7	55.7	55.7	55.7	—	—	—	55.7
NEW 1/2 Beam angle 50°	Part No.	65/X/50	57/X/50	50/X/50	40/X/50	30/X/50	27/X/50	22/X/50	—	—	—	YE/N/50
	Center luminous intensity (cd)	10,700	10,700	10,700	10,700	8,950	8,950	7,160	—	—	—	9,850
	Luminous flux (lm)	4,840	4,840	4,840	4,840	4,030	4,030	3,230	—	—	—	4,430
	Rated power consumption (W)	55.7	55.7	55.7	55.7	55.7	55.7	55.7	—	—	—	55.7

Rated power consumptions under condition of AC 100 V. ※Values in this catalog are for reference only and are not guaranteed.

■**Narrow-angle type** LLF0111A / LWWD035 / □□ / □ / □□ / S / BK / □ / C / CE / 1
(Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f)

■**Medium-angle type** LLF0111A / LWWD056 / □□ / □ / □□ / S / BK / □ / C / CE / 1
(Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f)

a : Installed type [S] = Standard installation
b : Body color [BK] = Charcoal grey
c : Control [C] = DALI dimming (Curve: Log)
Control [F] = DALI dimming (Curve: Linear)
Control [D] = DMX dimming (Curve: Log)
Control [G] = DMX dimming (Curve: Linear)
d : Painting specification [C] = Heavy-duty salt resistance
e : Standard [CE] = CE/PSE
Standard [TS] = TIS
※Blue conforms only to CE standard.
※Medium-angle type 2200K conforms only to PSE.
f : Ver. [1] = Version 1

※The Part No. in the table below only indicates the light source color and light distribution angle.

Dimmable type

Specification		6500K	5700K	5000K	4000K	3000K	2700K	2200K	Red	Green	Blue	Gold
■Narrow-angle type												
1/2 Beam angle 2.5°	Part No.	65/X/VN	57/X/VN	50/X/VN	40/X/VN	30/X/VN	27/X/VN	22/X/VN	RE/N/VN	GR/N/VN	BL/N/VN	YE/N/VN
	Center luminous intensity (cd)	1,230,000	1,230,000	1,230,000	1,230,000	1,100,000	937,000	820,000	251,000	838,000	74,800	1,020,000
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W) DALI dimming	35.9	35.9	35.9	35.9	35.9	35.9	35.9	33.8	33.2	35.9	35.9
	Rated power consumption (W) DMX dimming	37.1	37.1	37.1	37.1	37.1	37.1	37.1	34.9	34.3	37.1	37.1
1/2 Beam angle 3°	Part No.	65/X/03	57/X/03	50/X/03	40/X/03	30/X/03	27/X/03	22/X/03	RE/N/03	GR/N/03	BL/N/03	YE/N/03
	Center luminous intensity (cd)	870,000	870,000	870,000	870,000	783,000	664,000	581,000	178,000	594,000	53,100	726,000
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W) DALI dimming	35.9	35.9	35.9	35.9	35.9	35.9	35.9	33.8	33.2	35.9	35.9
	Rated power consumption (W) DMX dimming	37.1	37.1	37.1	37.1	37.1	37.1	37.1	34.9	34.3	37.1	37.1
1/2 Beam angle 4°	Part No.	65/X/04	57/X/04	50/X/04	40/X/04	30/X/04	27/X/04	22/X/04	RE/N/04	GR/N/04	BL/N/04	YE/N/04
	Center luminous intensity (cd)	470,000	470,000	470,000	470,000	423,000	359,000	314,000	96,100	321,000	28,700	392,000
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W) DALI dimming	35.9	35.9	35.9	35.9	35.9	35.9	35.9	33.8	33.2	35.9	35.9
	Rated power consumption (W) DMX dimming	37.1	37.1	37.1	37.1	37.1	37.1	37.1	34.9	34.3	37.1	37.1
1/2 Beam angle 5°	Part No.	65/X/05	57/X/05	50/X/05	40/X/05	30/X/05	27/X/05	22/X/05	RE/N/05	GR/N/05	BL/N/03	YE/N/05
	Center luminous intensity (cd)	269,000	269,000	269,000	269,000	242,000	205,000	179,000	54,900	183,000	16,400	224,000
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W) DALI dimming	35.9	35.9	35.9	35.9	35.9	35.9	35.9	33.8	33.2	35.9	35.9
	Rated power consumption (W) DMX dimming	37.1	37.1	37.1	37.1	37.1	37.1	37.1	34.9	34.3	37.1	37.1
1/2 Beam angle 6°	Part No.	65/X/06	57/X/06	50/X/06	40/X/06	30/X/06	27/X/06	22/X/06	RE/N/06	GR/N/06	BL/N/06	YE/N/06
	Center luminous intensity (cd)	196,000	196,000	196,000	196,000	177,000	150,000	131,000	40,100	134,000	12,000	164,000
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W) DALI dimming	35.9	35.9	35.9	35.9	35.9	35.9	35.9	33.8	33.2	35.9	35.9
	Rated power consumption (W) DMX dimming	37.1	37.1	37.1	37.1	37.1	37.1	37.1	34.9	34.3	37.1	37.1
1/2 Beam angle 7°	Part No.	65/X/07	57/X/07	50/X/07	40/X/07	30/X/07	27/X/07	22/X/07	RE/N/07	GR/N/07	BL/N/07	YE/N/07
	Center luminous intensity (cd)	149,000	149,000	149,000	149,000	134,000	114,000	99,800	30,500	102,000	9,110	125,000
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W) DALI dimming	35.9	35.9	35.9	35.9	35.9	35.9	35.9	33.8	33.2	35.9	35.9
	Rated power consumption (W) DMX dimming	37.1	37.1	37.1	37.1	37.1	37.1	37.1	34.9	34.3	37.1	37.1
1/2 Beam angle 8°	Part No.	65/X/08	57/X/08	50/X/08	40/X/08	30/X/08	27/X/08	22/X/08	RE/N/08	GR/N/08	BL/N/08	YE/N/08
	Center luminous intensity (cd)	113,000	113,000	113,000	113,000	102,000	86,600	75,800	23,200	77,400	6,910	94,600
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W) DALI dimming	35.9	35.9	35.9	35.9	35.9	35.9	35.9	33.8	33.2	35.9	35.9
	Rated power consumption (W) DMX dimming	37.1	37.1	37.1	37.1	37.1	37.1	37.1	34.9	34.3	37.1	37.1
1/2 Beam angle 9°	Part No.	65/X/09	57/X/09	50/X/09	40/X/09	30/X/09	27/X/09	22/X/09	RE/N/09	GR/N/09	BL/N/09	YE/N/09
	Center luminous intensity (cd)	94,200	94,200	94,200	94,200	84,800	71,900	62,900	19,200	64,300	5,740	78,500
	Luminous flux (lm)	1,700	1,700	1,700	1,700	1,530	1,400	1,220	334	1,180	180	1,600
	Rated power consumption (W) DALI dimming	35.9	35.9	35.9	35.9	35.9	35.9	35.9	33.8	33.2	35.9	35.9
	Rated power consumption (W) DMX dimming	37.1	37.1	37.1	37.1	37.1	37.1	37.1	34.9	34.3	37.1	37.1
■Medium-angle type												
1/2 Beam angle 10°	Part No.	65/X/10	57/X/10	50/X/10	40/X/10	30/X/10	27/X/10	22/X/10	—	—	—	YE/N/10
	Center luminous intensity (cd)	166,000	166,000	166,000	166,000	138,000	138,000	110,000	—	—	—	152,000
	Luminous flux (lm)	4,240	4,240	4,240	4,240	3,540	3,540	2,830	—	—	—	3,890
	Rated power consumption (W) DALI dimming	47.4	47.4	47.4	47.4	47.4	47.4	47.4	—	—	—	47.4
	Rated power consumption (W) DMX dimming	48.3	48.3	48.3	48.3	48.3	48.3	48.3	—	—	—	48.3
1/2 Beam angle 20°	Part No.	65/X/20	57/X/20	50/X/20	40/X/20	30/X/20	27/X/20	22/X/20	—	—	—	YE/N/20
	Center luminous intensity (cd)	60,200	60,200	60,200	60,200	50,200	50,200	40,100	—	—	—	55,200
	Luminous flux (lm)	4,240	4,240	4,240	4,240	3,540	3,540	2,830	—	—	—	3,890
	Rated power consumption (W) DALI dimming	47.4	47.4	47.4	47.4	47.4	47.4	47.4	—	—	—	47.4
	Rated power consumption (W) DMX dimming	48.3	48.3	48.3	48.3	48.3	48.3	48.3	—	—	—	48.3
1/2 Beam angle 30°	Part No.	65/X/30	57/X/30	50/X/30	40/X/30	30/X/30	27/X/30	22/X/30	—	—	—	YE/N/30
	Center luminous intensity (cd)	26,400	26,400	26,400	26,400	22,000	22,000	17,600	—	—	—	24,200
	Luminous flux (lm)	4,240	4,240	4,240	4,240	3,540	3,540	2,830	—	—	—	3,890
	Rated power consumption (W) DALI dimming	47.4	47.4	47.4	47.4	47.4	47.4	47.4	—	—	—	47.4
	Rated power consumption (W) DMX dimming	48.3	48.3	48.3	48.3	48.3	48.3	48.3	—	—	—	48.3
NEW 1/2 Beam angle 50°	Part No.	65/X/50	57/X/50	50/X/50	40/X/50	30/X/50	27/X/50	22/X/50	—	—	—	YE/N/50
	Center luminous intensity (cd)	9,420	9,420	9,420	9,420	7,850	7,850	6,280	—	—	—	8,640
	Luminous flux (lm)	4,240	4,240	4,240	4,240	3,540	3,540	2,830	—	—	—	3,890
	Rated power consumption (W) DALI dimming	47.4	47.4	47.4	47.4	47.4	47.4	47.4	—	—	—	47.4
	Rated power consumption (W) DMX dimming	48.3	48.3	48.3	48.3	48.3	48.3	48.3	—	—	—	48.3

Rated power consumptions under condition of AC 100 V. ※Values in this catalog are for reference only and are not guaranteed.

LEDSFOCUS PRO **LLF0112A**

Heat resistance

VIbration resistance 1G

Noise resistance

UV resistance

Heavy salt resistance

High waterproof IP66

Specifiction

Body: Aluminum die casting
Front cover: Polycarbonate
Secondary lens: Acrylic
Ambient temperature:
-20–50 °C (Narrow angle ON/OFF type)
-25–50 °C (Narrow angle Dimmable type / Medium angle)
Waterproof and dustproof: IP66
Light source life: 50,000 hours (lumen maintenance factor 70%)
Power supply: Built in
Weight: Narrow-angle type (1.5–9°) 3.5 kg [Dimmable type 3.7 kg]
Medium-angle type (10–50°) 4.2 kg [Dimmable type 4.3 kg]

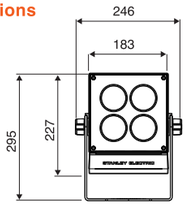
ON/OFF type	Luminous flux	Rated power consumption
Ultra narrow-angle (1.5°)	628 lm	16.0W
Narrow-angle (2.5–9°)	87.6–808 lm	15.6–16.9W
Medium-angle (10–50°)	1,550–2,240 lm	28.3W

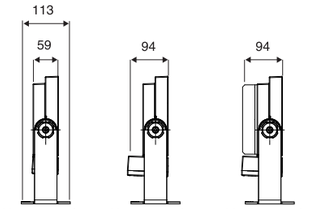
Dimmable type	Luminous flux	Rated power consumption
Narrow-angle (2.5–9°)	87.6–808 lm	16.9–17.8W
Medium-angle (10–50°)	1,550–2,240 lm	28.7–29.8W

Rated power consumption is at AC 100 V

Dimensions

Unit: mm





Narrow-angle (ON/OFF) | Narrow-angle (Dimmable) | Medium-angle (ON/OFF, Dimmable)

Narrow-angle (ON/OFF) | Narrow-angle (Dimmable) | Medium-angle (ON/OFF, Dimmable)

Color

Charcol grey (Standard color)

Option

Spread lens

Louver

Illumination range	6500K	5700K	5000K	4000K	3000K	2700K	2200K	Red	Green	Blue	Gold
Beam Angle 1.5°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
10 / 0.28	—	—	7,300	—	—	—	—	—	—	—	—
30 / 0.84	—	—	810	—	—	—	—	—	—	—	—
50 / 1.4	—	—	290	—	—	—	—	—	—	—	—
100 / 2.8	—	—	73	—	—	—	—	—	—	—	—
250 / 7.0	—	—	12	—	—	—	—	—	—	—	—
Beam Angle 2.5°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
10 / 0.38	5,200	5,200	5,200	5,200	4,700	4,000	3,500	1,100	3,600	320	4,200
30 / 1.2	580	580	580	580	520	450	390	120	390	35	470
50 / 1.9	210	210	210	210	190	160	140	42	140	13	170
100 / 3.8	52	52	52	52	47	40	35	11	36	3.2	42
250 / 9.6	8.3	8.3	8.3	8.3	7.5	6.4	5.6	1.7	5.7	0.51	6.7
Beam Angle 3.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
10 / 0.45	3,600	3,600	3,600	3,600	3,200	2,800	2,500	730	2,400	220	3,000
30 / 1.4	400	400	400	400	360	310	270	81	270	24	330
50 / 2.3	140	140	140	140	130	110	98	29	97	8.7	120
100 / 4.5	36	36	36	36	32	28	25	7.3	24	2.2	30
250 / 11	5.7	5.7	5.7	5.7	5.1	4.5	3.9	1.2	3.9	0.35	4.8
Beam Angle 4.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
10 / 0.66	1,900	1,900	1,900	1,900	1,700	1,500	1,300	390	1,300	120	1,600
30 / 2.0	210	210	210	210	190	160	140	43	140	13	170
50 / 3.3	75	75	75	75	68	58	51	15	51	4.6	62
100 / 6.6	19	19	19	19	17	15	13	3.9	13	1.2	16
250 / 17	3.0	3.0	3.0	3.0	2.7	2.3	2.0	0.62	2.0	0.18	2.5

D (m) = Distance / Φ (m) = 1/2 Illuminance Beam

※Values in this catalog are for reference only and are not guaranteed.

Illumination range	6500K	5700K	5000K	4000K	3000K	2700K	2200K	Red	Green	Blue	Gold
Beam Angle 5.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
10 / 0.91	1,100	1,100	1,100	1,100	970	830	720	220	730	66	900
30 / 2.7	120	120	120	120	110	92	80	24	81	7.3	99
50 / 4.5	43	43	43	43	39	33	29	8.8	29	2.6	36
100 / 9.1	11	11	11	11	9.7	8.3	7.2	2.2	7.3	0.66	9.0
250 / 23	1.7	1.7	1.7	1.7	1.5	1.3	1.2	0.35	1.2	0.10	1.4
Beam Angle 6.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
10 / 1.1	780	780	780	780	710	610	530	160	540	48	660
30 / 3.2	87	87	87	87	78	67	59	18	59	5.3	73
50 / 5.4	31	31	31	31	28	24	21	6.4	21	1.9	26
100 / 11	7.8	7.8	7.8	7.8	7.1	6.1	5.3	1.6	5.4	0.48	6.6
250 / 27	1.3	1.3	1.3	1.3	1.1	0.97	0.85	0.26	0.86	0.076	1.0
Beam Angle 7.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
10 / 1.3	600	600	600	600	540	460	400	120	410	36	500
30 / 3.8	66	66	66	66	60	51	45	14	45	4.0	56
50 / 6.3	24	24	24	24	21	18	16	4.9	16	1.5	20
100 / 13	6.0	6.0	6.0	6.0	5.4	4.6	4.0	1.2	4.1	0.36	5.0
250 / 31	0.96	0.96	0.96	0.96	0.86	0.74	0.64	0.20	0.65	0.058	0.80
Beam Angle 8.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
10 / 1.4	450	450	450	450	410	350	300	92	310	28	380
30 / 4.3	50	50	50	50	45	38	34	10	34	3.1	42
50 / 7.2	18	18	18	18	16	14	12	3.7	12	1.1	15
100 / 14	4.5	4.5	4.5	4.5	4.1	3.5	3.0	0.92	3.1	0.28	3.8
250 / 36	0.72	0.72	0.72	0.72	0.65	0.55	0.48	0.15	0.49	0.044	0.60
Beam Angle 9.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
10 / 1.5	370	370	370	370	330	290	250	76	250	23	310
30 / 4.5	41	41	41	41	37	32	28	8.4	28	2.5	35
50 / 7.5	15	15	15	15	13	11	10	3.0	10	0.90	13
100 / 15	3.7	3.7	3.7	3.7	3.3	2.9	2.5	0.76	2.5	0.23	3.1
250 / 38	0.59	0.59	0.59	0.59	0.53	0.46	0.40	0.12	0.40	0.036	0.50
Beam Angle 10°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
10 / 1.6	920	920	920	920	770	770	610	—	—	—	840
30 / 4.7	100	100	100	100	85	85	68	—	—	—	94
50 / 7.9	37	37	37	37	31	31	24	—	—	—	34
100 / 16	9.2	9.2	9.2	9.2	7.7	7.7	6.1	—	—	—	8.4
250 / 39	1.5	1.5	1.5	1.5	1.2	1.2	0.98	—	—	—	1.3
Beam Angle 20°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
10 / 3.2	340	340	340	340	280	280	230	—	—	—	310
30 / 9.5	37	37	37	37	31	31	25	—	—	—	34
50 / 16	13	13	13	13	11	11	9.0	—	—	—	12
100 / 32	3.4	3.4	3.4	3.4	2.8	2.8	2.3	—	—	—	3.1
250 / 79	0.54	0.54	0.54	0.54	0.45	0.45	0.36	—	—	—	0.49
Beam Angle 30°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
10 / 4.8	150	150	150	150	120	120	98	—	—	—	130
30 / 15	16	16	16	16	14	14	11	—	—	—	15
50 / 24	5.8	5.8	5.8	5.8	4.9	4.9	3.9	—	—	—	5.4
100 / 48	1.5	1.5	1.5	1.5	1.2	1.2	0.98	—	—	—	1.3
250 / 121	0.23	0.23	0.23	0.23	0.20	0.20	0.16	—	—	—	0.21
Beam Angle 50°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
10 / 10	53	53	53	53	44	44	35	—	—	—	48
30 / 31	5.8	5.8	5.8	5.8	4.9	4.9	3.9	—	—	—	5.4
50 / 51	2.1	2.1	2.1	2.1	1.8	1.8	1.4	—	—	—	1.9
100 / 102	0.53	0.53	0.53	0.53	0.44	0.44	0.35	—	—	—	0.48
250 / 256	0.084	0.084	0.084	0.084	0.070	0.070	0.056	—	—	—	0.077

D (m) = Distance / Φ (m) = 1/2 Illuminance Beam

※Values in this catalog are for reference only and are not guaranteed.

■**Narrow-angle type** LLF0112A / MWWD017 / □□ / □ / □□ / S / BK / S / C / CE / 1
(Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f)

■**Medium-angle type** LLF0112A / MWWD028 / □□ / □ / □□ / S / BK / S / C / CE / 1
(Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f)

a : Installed type [S] = Standard installation
b : Body color [BK] = Charcoal grey
c : Control [S] = ON/OFF Control
d : Painting specification [C] = Heavy-duty salt resistance
e : Standard [CE] = CE/PSE
Standard [TS] = TIS
※Blue conforms only to CE standard.
※Medium-angle type 2200K conforms only to PSE.
f : Ver. [1] = Version 1

※The Part No. in the table below only indicates the light source color and light distribution angle.

ON/OFF type

Specification		6500K	5700K	5000K	4000K	3000K	2700K	2200K	Red	Green	Blue	Gold
■Narrow-angle type												
1/2 Beam angle 1.5°	Part No.	—	—	50/X/XN	—	—	—	—	—	—	—	—
	Center luminous intensity (cd)	—	—	797,000	—	—	—	—	—	—	—	—
	Luminous flux (lm)	—	—	565	—	—	—	—	—	—	—	—
	Rated power consumption (W)	—	—	15.7	—	—	—	—	—	—	—	—
1/2 Beam angle 2.5°	Part No.	65/X/VN	57/X/VN	50/X/VN	40/X/VN	30/X/VN	27/X/VN	22/X/VN	RE/N/VN	GR/N/VN	BL/N/VN	YE/N/VN
	Center luminous intensity (cd)	546,000	546,000	546,000	546,000	491,000	417,000	364,000	111,000	372,000	33,300	455,000
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W)	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
1/2 Beam angle 3°	Part No.	65/X/03	57/X/03	50/X/03	40/X/03	30/X/03	27/X/03	22/X/03	RE/N/03	GR/N/03	BL/N/03	YE/N/03
	Center luminous intensity (cd)	372,000	372,000	372,000	372,000	335,000	284,000	248,000	76,000	254,000	22,700	310,000
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W)	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
1/2 Beam angle 4°	Part No.	65/X/04	57/X/04	50/X/04	40/X/04	30/X/04	27/X/04	22/X/04	RE/N/04	GR/N/04	BL/N/04	YE/N/04
	Center luminous intensity (cd)	193,000	193,000	193,000	193,000	174,000	147,000	129,000	39,400	132,000	11,800	161,000
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W)	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
1/2 Beam angle 5°	Part No.	65/X/05	57/X/05	50/X/05	40/X/05	30/X/05	27/X/05	22/X/05	RE/N/05	GR/N/05	BL/N/05	YE/N/05
	Center luminous intensity (cd)	109,000	109,000	109,000	109,000	97,900	83,100	72,700	22,200	74,200	6,630	90,800
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W)	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
1/2 Beam angle 6°	Part No.	65/X/06	57/X/06	50/X/06	40/X/06	30/X/06	27/X/06	22/X/06	RE/N/06	GR/N/06	BL/N/06	YE/N/06
	Center luminous intensity (cd)	79,600	79,600	79,600	79,600	71,600	60,700	53,200	16,300	54,300	4,850	66,400
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W)	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
1/2 Beam angle 7°	Part No.	65/X/07	57/X/07	50/X/07	40/X/07	30/X/07	27/X/07	22/X/07	RE/N/07	GR/N/07	BL/N/07	YE/N/07
	Center luminous intensity (cd)	60,600	60,600	60,600	60,600	54,500	46,300	40,500	12,400	41,300	3,690	50,500
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W)	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
1/2 Beam angle 8°	Part No.	65/X/08	57/X/08	50/X/08	40/X/08	30/X/08	27/X/08	22/X/08	RE/N/08	GR/N/08	BL/N/08	YE/N/08
	Center luminous intensity (cd)	45,500	45,500	45,500	45,500	40,900	34,700	30,400	9,290	31,000	2,770	37,900
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W)	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
1/2 Beam angle 9°	Part No.	65/X/09	57/X/09	50/X/09	40/X/09	30/X/09	27/X/09	22/X/09	RE/N/09	GR/N/09	BL/N/09	YE/N/09
	Center luminous intensity (cd)	37,700	37,700	37,700	37,700	33,900	28,800	25,200	7,700	25,700	2,300	31,400
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W)	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
■Medium-angle type												
1/2 Beam angle 10°	Part No.	65/X/10	57/X/10	50/X/10	40/X/10	30/X/10	27/X/10	22/X/10	—	—	—	YE/N/10
	Center luminous intensity (cd)	91,800	91,800	91,800	91,800	76,500	76,500	61,200	—	—	—	84,200
	Luminous flux (lm)	2,350	2,350	2,350	2,350	1,960	1,960	1,570	—	—	—	2,160
	Rated power consumption (W)	28.3	28.3	28.3	28.3	28.3	28.3	28.3	—	—	—	28.3
1/2 Beam angle 20°	Part No.	65/X/20	57/X/20	50/X/20	40/X/20	30/X/20	27/X/20	22/X/20	—	—	—	YE/N/20
	Center luminous intensity (cd)	33,700	33,700	33,700	33,700	28,100	28,100	22,500	—	—	—	30,900
	Luminous flux (lm)	2,350	2,350	2,350	2,350	1,960	1,960	1,570	—	—	—	2,160
	Rated power consumption (W)	28.3	28.3	28.3	28.3	28.3	28.3	28.3	—	—	—	28.3
1/2 Beam angle 30°	Part No.	65/X/30	57/X/30	50/X/30	40/X/30	30/X/30	27/X/30	22/X/30	—	—	—	YE/N/30
	Center luminous intensity (cd)	14,600	14,600	14,600	14,600	12,200	12,200	9,760	—	—	—	13,400
	Luminous flux (lm)	2,350	2,350	2,350	2,350	1,960	1,960	1,570	—	—	—	2,160
	Rated power consumption (W)	28.3	28.3	28.3	28.3	28.3	28.3	28.3	—	—	—	28.3
NEW 1/2 Beam angle 50°	Part No.	65/X/50	57/X/50	50/X/50	40/X/50	30/X/50	27/X/50	22/X/50	—	—	—	YE/N/50
	Center luminous intensity (cd)	5,260	5,260	5,260	5,260	4,380	4,380	3,510	—	—	—	4,820
	Luminous flux (lm)	2,350	2,350	2,350	2,350	1,960	1,960	1,570	—	—	—	2,160
	Rated power consumption (W)	28.3	28.3	28.3	28.3	28.3	28.3	28.3	—	—	—	28.3

Rated power consumptions under condition of AC 100 V. ※Values in this catalog are for reference only and are not guaranteed.

■**Narrow-angle type** LLF0112A / MWWD017 / □□ / □ / □□ / S / BK / □ / C / CE / 1
(Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f)

■**Medium-angle type** LLF0112A / MWWD028 / □□ / □ / □□ / S / BK / □ / C / CE / 1
(Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f)

a : Installed type [S] = Standard installation
b : Body color [BK] = Charcoal grey
c : Control [C] = DALI dimming (Curve: Log)
Control [F] = DALI dimming (Curve: Linear)
Control [D] = DMX dimming (Curve: Log)
Control [G] = DMX dimming (Curve: Linear)
d : Painting specification [C] = Heavy-duty salt resistance
e : Standard [CE] = CE/PSE
Standard [TS] = TIS
※Blue conforms only to CE standard.
※Medium-angle type 2200K conforms only to PSE.
f : Ver. [1] = Version 1

※The Part No. in the table below only indicates the light source color and light distribution angle.

Dimmable type

Specification		6500K	5700K	5000K	4000K	3000K	2700K	2200K	Red	Green	Blue	Gold
■Narrow-angle type												
1/2 Beam angle 2.5°	Part No.	65/X/VN	57/X/VN	50/X/VN	40/X/VN	30/X/VN	27/X/VN	22/X/VN	RE/N/VN	GR/N/VN	BL/N/VN	YE/N/VN
	Center luminous intensity (cd)	546,000	546,000	546,000	546,000	491,000	417,000	364,000	111,000	372,000	33,300	455,000
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W) DALI dimming	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
	Rated power consumption (W) DMX dimming	17.8	17.8	17.8	17.8	17.8	17.8	17.8	16.7	16.4	17.8	17.8
1/2 Beam angle 3°	Part No.	65/X/03	57/X/03	50/X/03	40/X/03	30/X/03	27/X/03	22/X/03	RE/N/03	GR/N/03	BL/N/03	YE/N/03
	Center luminous intensity (cd)	372,000	372,000	372,000	372,000	335,000	284,000	248,000	76,000	254,000	22,700	310,000
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W) DALI dimming	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
	Rated power consumption (W) DMX dimming	17.8	17.8	17.8	17.8	17.8	17.8	17.8	16.7	16.4	17.8	17.8
1/2 Beam angle 4°	Part No.	65/X/04	57/X/04	50/X/04	40/X/04	30/X/04	27/X/04	22/X/04	RE/N/04	GR/N/04	BL/N/04	YE/N/04
	Center luminous intensity (cd)	193,000	193,000	193,000	193,000	174,000	147,000	129,000	39,400	132,000	11,800	161,000
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W) DALI dimming	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
	Rated power consumption (W) DMX dimming	17.8	17.8	17.8	17.8	17.8	17.8	17.8	16.7	16.4	17.8	17.8
1/2 Beam angle 5°	Part No.	65/X/05	57/X/05	50/X/05	40/X/05	30/X/05	27/X/05	22/X/05	RE/N/05	GR/N/05	BL/N/05	YE/N/05
	Center luminous intensity (cd)	109,000	109,000	109,000	109,000	97,900	83,100	72,700	22,200	74,200	6,630	90,800
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W) DALI dimming	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
	Rated power consumption (W) DMX dimming	17.8	17.8	17.8	17.8	17.8	17.8	17.8	16.7	16.4	17.8	17.8
1/2 Beam angle 6°	Part No.	65/X/06	57/X/06	50/X/06	40/X/06	30/X/06	27/X/06	22/X/06	RE/N/06	GR/N/06	BL/N/06	YE/N/06
	Center luminous intensity (cd)	79,600	79,600	79,600	79,600	71,600	60,700	53,200	16,300	54,300	4,850	66,400
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W) DALI dimming	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
	Rated power consumption (W) DMX dimming	17.8	17.8	17.8	17.8	17.8	17.8	17.8	16.7	16.4	17.8	17.8
1/2 Beam angle 7°	Part No.	65/X/07	57/X/07	50/X/07	40/X/07	30/X/07	27/X/07	22/X/07	RE/N/07	GR/N/07	BL/N/07	YE/N/07
	Center luminous intensity (cd)	60,600	60,600	60,600	60,600	54,500	46,300	40,500	12,400	41,300	3,690	50,500
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W) DALI dimming	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
	Rated power consumption (W) DMX dimming	17.8	17.8	17.8	17.8	17.8	17.8	17.8	16.7	16.4	17.8	17.8
1/2 Beam angle 8°	Part No.	65/X/08	57/X/08	50/X/08	40/X/08	30/X/08	27/X/08	22/X/08	RE/N/08	GR/N/08	BL/N/08	YE/N/08
	Center luminous intensity (cd)	45,500	45,500	45,500	45,500	40,900	34,700	30,400	9,290	31,000	2,770	37,900
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W) DALI dimming	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
	Rated power consumption (W) DMX dimming	17.8	17.8	17.8	17.8	17.8	17.8	17.8	16.7	16.4	17.8	17.8
1/2 Beam angle 9°	Part No.	65/X/09	57/X/09	50/X/09	40/X/09	30/X/09	27/X/09	22/X/09	RE/N/09	GR/N/09	BL/N/09	YE/N/09
	Center luminous intensity (cd)	37,700	37,700	37,700	37,700	33,900	28,800	25,200	7,700	25,700	2,300	31,400
	Luminous flux (lm)	757	757	757	757	681	622	544	148	524	80.2	710
	Rated power consumption (W) DALI dimming	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.1	15.6	16.9	16.9
	Rated power consumption (W) DMX dimming	17.8	17.8	17.8	17.8	17.8	17.8	17.8	16.7	16.4	17.8	17.8
■Medium-angle type												
1/2 Beam angle 10°	Part No.	65/X/10	57/X/10	50/X/10	40/X/10	30/X/10	27/X/10	22/X/10	—	—	—	YE/N/10
	Center luminous intensity (cd)	91,800	91,800	91,800	91,800	76,500	76,500	61,200	—	—	—	84,200
	Luminous flux (lm)	2,350	2,350	2,350	2,350	1,960	1,960	1,570	—	—	—	2,160
	Rated power consumption (W) DALI dimming	28.7	28.7	28.7	28.7	28.7	28.7	28.7	—	—	—	28.7
	Rated power consumption (W) DMX dimming	29.8	29.8	29.8	29.8	29.8	29.8	29.8	—	—	—	29.8
1/2 Beam angle 20°	Part No.	65/X/20	57/X/20	50/X/20	40/X/20	30/X/20	27/X/20	22/X/20	—	—	—	YE/N/20
	Center luminous intensity (cd)	33,700	33,700	33,700	33,700	28,100	28,100	22,500	—	—	—	30,900
	Luminous flux (lm)	2,350	2,350	2,350	2,350	1,960	1,960	1,570	—	—	—	2,160
	Rated power consumption (W) DALI dimming	28.7	28.7	28.7	28.7	28.7	28.7	28.7	—	—	—	28.7
	Rated power consumption (W) DMX dimming	29.8	29.8	29.8	29.8	29.8	29.8	29.8	—	—	—	29.8
1/2 Beam angle 30°	Part No.	65/X/30	57/X/30	50/X/30	40/X/30	30/X/30	27/X/30	22/X/30	—	—	—	YE/N/30
	Center luminous intensity (cd)	14,600	14,600	14,600	14,600	12,200	12,200	9,760	—	—	—	13,400
	Luminous flux (lm)	2,350	2,350	2,350	2,350	1,960	1,960	1,570	—	—	—	2,160
	Rated power consumption (W) DALI dimming	28.7	28.7	28.7	28.7	28.7	28.7	28.7	—	—	—	28.7
	Rated power consumption (W) DMX dimming	29.8	29.8	29.8	29.8	29.8	29.8	29.8	—	—	—	29.8
NEW 1/2 Beam angle 50°	Part No.	65/X/50	57/X/50	50/X/50	40/X/50	30/X/50	27/X/50	22/X/50	—	—	—	YE/N/50
	Center luminous intensity (cd)	5,260	5,260	5,260	5,260	4,380	4,380	3,510	—	—	—	4,820
	Luminous flux (lm)	2,350	2,350	2,350	2,350	1,960	1,960	1,570	—	—	—	2,160
	Rated power consumption (W) DALI dimming	28.7	28.7	28.7	28.7	28.7	28.7	28.7	—	—	—	28.7
	Rated power consumption (W) DMX dimming	29.8	29.8	29.8	29.8	29.8	29.8	29.8	—	—	—	29.8

Rated power consumptions under condition of AC 100 V. ※Values in this catalog are for reference only and are not guaranteed.

LEDSFOCUS PRO **LLF0113A**

- Heat resistance
- VIbration resistance 1G
- Noise resistance
- UV resistance
- Heavy salt resistance
- High waterproof IP66

Specifiction

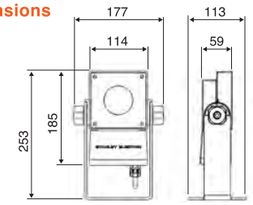
Body: Aluminum die casting
Front cover: Polycarbonate
Secondary lens: Acrylic
Ambient temperature: -25–50 °C
Waterproof and dustproof: IP66
Light source life: 50,000 hours (lumen maintenance factor 70%)
Power supply: Built in
Weight: 2.5 kg

ON/OFF type	Luminous flux	Rated power consumption
Ultra narrow-angle (1.5°)	157 lm	6.60 W
Narrow-angle (2.5–9°)	21.9–202 lm	6.70–7.10 W
Medium-angle (10–50°)	388–561 lm	9.80 W

Rated power consumption is at AC 100 V

Dimensions

Unit: mm

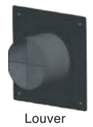


Color

Charcoal grey (Standard color)

Option

Spread lens



Louver

Illumination range	6500K	5700K	5000K	4000K	3000K	2700K	2200K	Red	Green	Blue	Gold
Beam Angle 1.5°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
5 / 0.14	—	—	7,800	—	—	—	—	—	—	—	—
10 / 0.28	—	—	2,000	—	—	—	—	—	—	—	—
30 / 0.84	—	—	220	—	—	—	—	—	—	—	—
50 / 1.4	—	—	78	—	—	—	—	—	—	—	—
100 / 2.8	—	—	20	—	—	—	—	—	—	—	—
Beam Angle 2.5°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
5 / 0.19	4,400	4,400	4,400	4,400	4,000	3,100	2,700	530	3,100	320	3,200
10 / 0.38	1,100	1,100	1,100	1,100	990	790	690	130	780	80	790
30 / 1.2	120	120	120	120	110	87	76	15	87	8.9	88
50 / 1.9	44	44	44	44	40	31	27	5.3	31	3.2	32
100 / 3.8	11	11	11	11	9.9	7.9	6.9	1.3	7.8	0.80	7.9
Beam Angle 3.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
5 / 0.23	3,000	3,000	3,000	3,000	2,700	2,100	1,800	360	2,100	210	2,100
10 / 0.45	740	740	740	740	670	530	460	89	530	54	530
30 / 1.4	82	82	82	82	74	59	51	9.9	59	6.0	59
50 / 2.3	30	30	30	30	27	21	18	3.6	21	2.1	21
100 / 4.5	7.4	7.4	7.4	7.4	6.7	5.3	4.6	0.89	5.3	0.54	5.3
Beam Angle 4.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
5 / 0.33	1,500	1,500	1,500	1,500	1,400	1,100	940	180	1,100	110	1,100
10 / 0.66	380	380	380	380	340	270	240	45	270	27	270
30 / 2.0	42	42	42	42	38	30	26	5.0	30	3.0	30
50 / 3.3	15	15	15	15	14	11	9.4	1.8	11	1.1	11
100 / 6.6	3.8	3.8	3.8	3.8	3.4	2.7	2.4	0.45	2.7	0.27	2.7

D (m) = Distance / Φ (m) = 1/2 Illuminance Beam

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Illumination range	6500K	5700K	5000K	4000K	3000K	2700K	2200K	Red	Green	Blue	Gold
Beam Angle 5.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
5 / 0.45	850	850	850	850	760	600	530	100	600	61	610
10 / 0.91	210	210	210	210	190	150	130	25	150	15	150
30 / 2.7	24	24	24	24	21	17	15	2.8	17	1.7	17
50 / 4.5	8.5	8.5	8.5	8.5	7.6	6.0	5.3	1.0	6.0	0.61	6.1
100 / 9.1	2.1	2.1	2.1	2.1	1.9	1.5	1.3	0.25	1.5	0.15	1.5
Beam Angle 6.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
5 / 0.54	620	620	620	620	560	440	380	74	440	44	440
10 / 1.1	150	150	150	150	140	110	96	19	110	11	110
30 / 3.2	17	17	17	17	15	12	11	2.1	12	1.2	12
50 / 5.4	6.2	6.2	6.2	6.2	5.6	4.4	3.8	0.74	4.4	0.44	4.4
100 / 11	1.5	1.5	1.5	1.5	1.4	1.1	0.96	0.19	1.1	0.11	1.1
Beam Angle 7.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
5 / 0.63	470	470	470	470	420	330	290	56	330	34	340
10 / 1.3	120	120	120	120	110	84	73	14	83	8.5	84
30 / 3.8	13	13	13	13	12	9.3	8.1	1.6	9.3	0.94	9.4
50 / 6.3	4.7	4.7	4.7	4.7	4.2	3.3	2.9	0.56	3.3	0.34	3.4
100 / 13	1.2	1.2	1.2	1.2	1.1	0.84	0.73	0.14	0.83	0.085	0.84
Beam Angle 8.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
5 / 0.72	350	350	350	350	310	250	220	42	250	25	250
10 / 1.4	87	87	87	87	78	62	54	10	61	6.3	62
30 / 4.3	9.6	9.6	9.6	9.6	8.7	6.8	6.0	1.2	6.8	0.69	6.9
50 / 7.2	3.5	3.5	3.5	3.5	3.1	2.5	2.2	0.42	2.5	0.25	2.5
100 / 14	0.87	0.87	0.87	0.87	0.78	0.62	0.54	0.10	0.61	0.063	0.62
Beam Angle 9.0°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
5 / 0.75	300	300	300	300	270	210	180	36	210	21	210
10 / 1.5	74	74	74	74	67	53	46	8.9	53	5.4	53
30 / 4.5	8.2	8.2	8.2	8.2	7.4	5.9	5.1	0.99	5.8	0.59	5.9
50 / 7.5	3.0	3.0	3.0	3.0	2.7	2.1	1.8	0.36	2.1	0.21	2.1
100 / 15	0.74	0.74	0.74	0.74	0.67	0.53	0.46	0.089	0.53	0.054	0.53
Beam Angle 10°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
5 / 0.79	760	760	760	760	630	630	500	—	—	—	690
10 / 1.6	190	190	190	190	160	160	130	—	—	—	170
30 / 4.7	21	21	21	21	17	17	14	—	—	—	19
50 / 7.9	7.6	7.6	7.6	7.6	6.3	6.3	5.0	—	—	—	6.9
100 / 16	1.9	1.9	1.9	1.9	1.6	1.6	1.3	—	—	—	1.7
Beam Angle 20°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
5 / 1.6	270	270	270	270	230	230	180	—	—	—	250
10 / 3.2	68	68	68	68	57	57	45	—	—	—	62
30 / 9.5	7.5	7.5	7.5	7.5	6.3	6.3	5.0	—	—	—	6.9
50 / 16	2.7	2.7	2.7	2.7	2.3	2.3	1.8	—	—	—	2.5
100 / 32	0.68	0.68	0.68	0.68	0.57	0.57	0.45	—	—	—	0.62
Beam Angle 30°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
5 / 2.4	120	120	120	120	99	99	79	—	—	—	110
10 / 4.8	30	30	30	30	25	25	20	—	—	—	27
30 / 15	3.3	3.3	3.3	3.3	2.7	2.7	2.2	—	—	—	3.0
50 / 24	1.2	1.2	1.2	1.2	0.99	0.99	0.79	—	—	—	1.1
100 / 48	0.30	0.30	0.30	0.30	0.25	0.25	0.20	—	—	—	0.27
Beam Angle 50°											
D (m) / Φ (m)	Center Beam Illuminance (lx)										
5 / 5.1	42	42	42	42	35	35	28	—	—	—	39
10 / 10	11	11	11	11	8.8	8.8	7.0	—	—	—	9.6
30 / 31	1.2	1.2	1.2	1.2	0.97	0.97	0.78	—	—	—	1.1
50 / 51	0.42	0.42	0.42	0.42	0.35	0.35	0.28	—	—	—	0.39
100 / 102	0.11	0.11	0.11	0.11	0.088	0.088	0.070	—	—	—	0.096

D (m) = Distance / Φ (m) = 1/2 Illuminance Beam

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LEDSFOCUS PRO **LLF0113A**

■**Narrow-angle type** LLF0113A / SWWD007 / □□ / □ / □□ / S / BK / S / C / CE / 1

(Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f)

■**Medium-angle type** LLF0113A / SWWD010 / □□ / □ / □□ / S / BK / S / C / CE / 1

(Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f)

a : Installed type [S] = Standard installation
b : Body color [BK] = Charcoal grey
c : Control [S] = ON/OFF Control
d : Painting specification [C] = Heavy-duty salt resistance
e : Standard [CE] = CE/PSE
Standard [TS] = TIS
※Blue conforms only to CE standard.
※Medium-angle type 2200K conforms only to PSE.
f : Ver. [1] = Version 1

※The Part No. in the table below only indicates the light source color and light distribution angle.

ON/OFF type

Specification		6500K	5700K	5000K	4000K	3000K	2700K	2200K	Red	Green	Blue	Gold
■**Narrow-angle type**												
1/2 Beam angle **1.5°**	Part No.	—	—	50/X/XN	—	—	—	—	—	—	—	—
	Center luminous intensity (cd)	—	—	195,000	—	—	—	—	—	—	—	—
	Luminous flux (lm)	—	—	139	—	—	—	—	—	—	—	—
	Rated power consumption (W)	—	—	6.60	—	—	—	—	—	—	—	—
1/2 Beam angle **2.5°**	Part No.	65/X/VN	57/X/VN	50/X/VN	40/X/VN	30/X/VN	27/X/VN	22/X/VN	RE/N/VN	GR/N/VN	BL/N/VN	YE/N/VN
	Center luminous intensity (cd)	110,000	110,000	110,000	110,000	99,300	78,600	68,700	13,200	78,300	7,970	79,300
	Luminous flux (lm)	158	158	158	158	142	121	106	18.3	110	18.9	129
	Rated power consumption (W)	7.10	7.10	7.10	7.10	7.10	7.10	7.10	6.80	6.70	7.10	7.10
1/2 Beam angle **3°**	Part No.	65/X/03	57/X/03	50/X/03	40/X/03	30/X/03	27/X/03	22/X/03	RE/N/03	GR/N/03	BL/N/03	YE/N/03
	Center luminous intensity (cd)	74,200	74,200	74,200	74,200	66,800	52,800	46,200	8,900	52,700	5,360	53,300
	Luminous flux (lm)	158	158	158	158	142	121	106	18.3	110	18.9	129
	Rated power consumption (W)	7.10	7.10	7.10	7.10	7.10	7.10	7.10	6.80	6.70	7.10	7.10
1/2 Beam angle **4°**	Part No.	65/X/04	57/X/04	50/X/04	40/X/04	30/X/04	27/X/04	22/X/04	RE/N/04	GR/N/04	BL/N/04	YE/N/04
	Center luminous intensity (cd)	37,800	37,800	37,800	37,800	34,000	26,900	23,500	4,540	26,800	2,730	27,100
	Luminous flux (lm)	158	158	158	158	142	121	106	18.3	110	18.9	129
	Rated power consumption (W)	7.10	7.10	7.10	7.10	7.10	7.10	7.10	6.80	6.70	7.10	7.10
1/2 Beam angle **5°**	Part No.	65/X/05	57/X/05	50/X/05	40/X/05	30/X/05	27/X/05	22/X/05	RE/N/05	GR/N/05	BL/N/05	YE/N/05
	Center luminous intensity (cd)	21,200	21,200	21,200	21,200	19,100	15,100	13,200	2,540	15,000	1,530	15,200
	Luminous flux (lm)	158	158	158	158	142	121	106	18.3	110	18.9	129
	Rated power consumption (W)	7.10	7.10	7.10	7.10	7.10	7.10	7.10	6.80	6.70	7.10	7.10
1/2 Beam angle **6°**	Part No.	65/X/06	57/X/06	50/X/06	40/X/06	30/X/06	27/X/06	22/X/06	RE/N/06	GR/N/06	BL/N/06	YE/N/06
	Center luminous intensity (cd)	15,400	15,400	15,400	15,400	13,900	11,000	9,590	1,850	10,900	1,110	11,100
	Luminous flux (lm)	158	158	158	158	142	121	106	18.3	110	18.9	129
	Rated power consumption (W)	7.10	7.10	7.10	7.10	7.10	7.10	7.10	6.80	6.70	7.10	7.10
1/2 Beam angle **7°**	Part No.	65/X/07	57/X/07	50/X/07	40/X/07	30/X/07	27/X/07	22/X/07	RE/N/07	GR/N/07	BL/N/07	YE/N/07
	Center luminous intensity (cd)	11,800	11,800	11,800	11,800	10,600	8,370	7,320	1,410	8,340	849	8,440
	Luminous flux (lm)	158	158	158	158	142	121	106	18.3	110	18.9	129
	Rated power consumption (W)	7.10	7.10	7.10	7.10	7.10	7.10	7.10	6.80	6.70	7.10	7.10
1/2 Beam angle **8°**	Part No.	65/X/08	57/X/08	50/X/08	40/X/08	30/X/08	27/X/08	22/X/08	RE/N/08	GR/N/08	BL/N/08	YE/N/08
	Center luminous intensity (cd)	8,660	8,660	8,660	8,660	7,790	6,160	5,390	1,040	6,140	625	6,220
	Luminous flux (lm)	158	158	158	158	142	121	106	18.3	110	18.9	129
	Rated power consumption (W)	7.10	7.10	7.10	7.10	7.10	7.10	7.10	6.80	6.70	7.10	7.10
1/2 Beam angle **9°**	Part No.	65/X/09	57/X/09	50/X/09	40/X/09	30/X/09	27/X/09	22/X/09	RE/N/09	GR/N/09	BL/N/09	YE/N/09
	Center luminous intensity (cd)	7,400	7,400	7,400	7,400	6,660	5,270	4,610	888	5,250	535	5,310
	Luminous flux (lm)	158	158	158	158	142	121	106	18.3	110	18.9	129
	Rated power consumption (W)	7.10	7.10	7.10	7.10	7.10	7.10	7.10	6.80	6.70	7.10	7.10
■**Medium-angle type**												
1/2 Beam angle **10°**	Part No.	65/X/10	57/X/10	50/X/10	40/X/10	30/X/10	27/X/10	22/X/10	—	—	—	YE/N/10
	Center luminous intensity (cd)	18,900	18,900	18,900	18,900	15,700	15,700	12,600	—	—	—	17,300
	Luminous flux (lm)	524	524	524	524	437	437	349	—	—	—	480
	Rated power consumption (W)	9.80	9.80	9.80	9.80	9.80	9.80	9.80	—	—	—	9.80
1/2 Beam angle **20°**	Part No.	65/X/20	57/X/20	50/X/20	40/X/20	30/X/20	27/X/20	22/X/20	—	—	—	YE/N/20
	Center luminous intensity (cd)	6,790	6,790	6,790	6,790	5,660	5,660	4,530	—	—	—	6,230
	Luminous flux (lm)	524	524	524	524	437	437	349	—	—	—	480
	Rated power consumption (W)	9.80	9.80	9.80	9.80	9.80	9.80	9.80	—	—	—	9.80
1/2 Beam angle **30°**	Part No.	65/X/30	57/X/30	50/X/30	40/X/30	30/X/30	27/X/30	22/X/30	—	—	—	YE/N/30
	Center luminous intensity (cd)	2,960	2,960	2,960	2,960	2,470	2,470	1,970	—	—	—	2,710
	Luminous flux (lm)	524	524	524	524	437	437	349	—	—	—	480
	Rated power consumption (W)	9.80	9.80	9.80	9.80	9.80	9.80	9.80	—	—	—	9.80
NEW 1/2 Beam angle **50°**	Part No.	65/X/50	57/X/50	50/X/50	40/X/50	30/X/50	27/X/30	22/X/50	—	—	—	YE/N/50
	Center luminous intensity (cd)	1,050	1,050	1,050	1,050	876	876	701	—	—	—	964
	Luminous flux (lm)	524	524	524	524	437	437	349	—	—	—	480
	Rated power consumption (W)	9.80	9.80	9.80	9.80	9.80	9.80	9.80	—	—	—	9.80

Rated power consumptions under condition of AC 100 V. ※Values in this catalog are for reference only and are not guaranteed.

Nihonbashi Takashimaya Department Store
(Location: Chuo-ku, Tokyo
Design: Nihon Sekkei + Plantec Architects JV
Lighting Design: Uchihara Creative Lighting Design Inc.)

Standard LED floodlight model

LEDSFOCUS

LED floodlight with ultra-narrow light distribution | LLM0545A

LED spotlight with ultra-narrow light distribution | LLM0854A

WANO AKARI x HYAKUDAN KAIDAN 2021
- Light of Nippon, Light for the Future -
(Location: Hyakudan Kaidan, Tokyo Metropolitan Area designated tangible cultural property inside Hotel Gajoen Tokyo in Meguro, Tokyo)

Expression through linear light

LEDSFOCUS LINE

LED linear lighting | LLM1389A

That Luang
(Location: Vientiane, Laos)

Global exclusive Gold

LEDSFOCUS GOLD

LED floodlight with ultra-narrow light distribution | LLF0111A LLF0112A LLF0113A LLM0545A

Outdoor LED floodlight | LLF0059A

Heat resistance

Vlbration resistance 1G

Noise resistance

UV resistance

High waterproof IP65

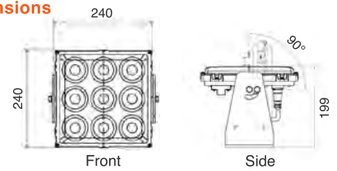
Specifiction

Body: Aluminum die casting
Outer lens: Polycarbonate
Bracket (sold separately): Stainless steel
Ambient temperature: -30–50 °C
Waterproof and dustproof: IP65
Light source life: UE/UG=40,00O hours / UZ=42,000 hours (lumen maintenance factor 70%)
Power supply: Placed separately (sold separately)
Weight: 2.3 kg
Optional parts: Power source, bracket,10 m cable

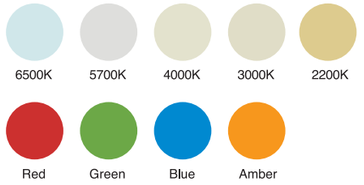
	Luminous flux	Rated power consumption
2.5°	410–1,720 lm	14.8–19.3 W
3°	480–1,330 lm	4.5–19.2 W
5°	1,260–1,400 lm	18.3 W

Dimensions

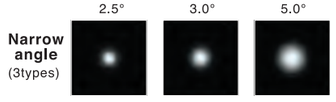
Unit: mm



An extensive range of color variations is also available.



Narrow angle variations



Model which makes a wide range of new lighting effects possible

Maximizing the potential of LED lighting, we have achieved an ultra-narrow light distribution which can be used in various lighting scenarios and light shows. This spotlight can deliver light to where it could not reach before. Abundant color variations are available to meet the demands of a wide range of lighting effects. Possessing a high level of resistance to water and dust, the lighting fixture can be used in any kind of environment.

Ultra-narrow light distribution — Narrow angle light distribution with a 1/2 beam angle of 2.5° has been achieved.

Low power consumption — Operates with power as low as 25W (When using the optional power supply).

Thin and lightweight — Just 47 mm thick (light source) and weighing only 2.3 kg (bracket excluded), it can be installed anywhere.

Water/dust proof — Available for outdoor usage (IP65).

Variety in color — In addition to variety of white color temperatures, there are red, green, blue, and amber colors available.

Illumination range

Beam Angle 2.0° [LLM0545A_UZ:6500K]

D (m)	Φ (m)※	Center Beam Illuminance (lx)
30	5.3	972
50	8.3	358
100	10	91
500	—	3.6
1000	—	0.9

Illumination range

Beam Angle 3.0° [LLM0545A_UE:5700K]

D (m)	Φ (m)※	Center Beam Illuminance (lx)
30	6	481
50	7.1	174
100	11.2	43
500	—	1.7
1000	—	0.4

Illumination range

Beam Angle 5.0° [LLM0545A_UG:5700K]

D (m)	Φ (m)※	Center Beam Illuminance (lx)
30	5.3	340
50	7.7	123
100	12.4	31
500	—	1.2
1000	—	0.3

※ 1lx or higher

LLM0545A_UZ / □□□□□

Specification	6500K	5700K	4000K	3000K	2200K	Red	Green	Blue	Amber
1/2 Beam angle 2.5° — Part No.	FLOODLIGHT 265	—	FLOODLIGHT 24	FLOODLIGHT 23	—	FLOODLIGHT 26	FLOODLIGHT 27	FLOODLIGHT 28	—
Center luminous intensity (cd)	918,000	—	768,000	736,000	—	180,000	518,000	235,000	—
Luminous flux (lm)	1,720	—	1,440	1,380	—	680	950	410	—
Rated power consumption (W)※	17.9 W	—	17.9 W	17.9 W	—	14.8 W	18.7 W	19.3 W	—
Maximum power consumption (W)※	19.2 W	—	19.2 W	19.2 W	—	18.6 W	21.3 W	21.2 W	—

LLM0545A_UE / □□□□□

1/2 Beam angle 3° — Part No.	—	—	FLOODLIGHT 34	FLOODLIGHT 33	FLOODLIGHT 32	FLOODLIGHT 36	FLOODLIGHT 37★	FLOODLIGHT 38	FLOODLIGHT 39
Center luminous intensity (cd)	—	436,000	396,000	347,000	235,000	262,000	146,000	194,000	250,000
Luminous flux (lm)	—	1,330	1,200	1,060	710	780	500	480	850
Rated power consumption (W)※	—	19.2 W	19.2 W	19.2 W	19.2 W	14.7 W	4.5 W	19.2 W	14.7 W
Maximum power consumption (W)※	—	21.0 W	21.0 W	21.0 W	21.0 W	16.7 W	4.5 W	21.0 W	16.7 W

★Input current value differs from other color variations.

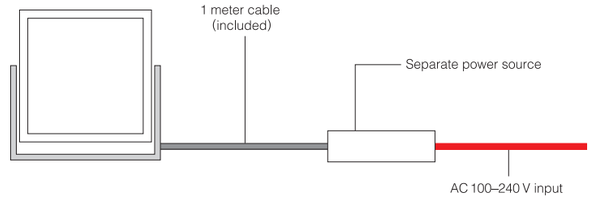
LLM0545A_UG / □□□□□

1/2 Beam angle 5° — Part No.	—	—	FLOODLIGHT 54	FLOODLIGHT 53	—	—	—	—	—
Center luminous intensity (cd)	—	308,000	300,000	300,000	—	—	—	—	—
Luminous flux (lm)	—	1,400	1,260	1,260	—	—	—	—	—
Rated power consumption (W)※	—	18.3 W	18.3 W	18.3 W	—	—	—	—	—
Maximum power consumption (W)※	—	21.0 W	21.0 W	21.0 W	—	—	—	—	—

※ Without power supply

Kamo Aquarium, Tsuruoka
(Location: Tsuruoka, Yamagata Prefecture Design: Nihon Sekkei, Inc.)

Wiring of the Power Source



Heat resistance

Vibration resistance 1G

Noise resistance

UV resistance

High waterproof IP65

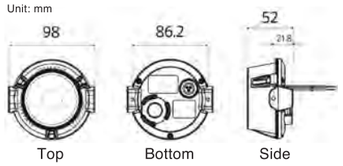
Specifiction

Body: Aluminum die casting
Front cover: Polycarbonate
Inner lens: Acryl (transparent)
Input voltage: DC 12 V
Power consumption: 2.9 W (max 3.6 W)
(max4.1 W) for red / green / blue
Ambient temperature: -35–50 °C
Waterproof and dustproof: IP65
Light source life: 40,000 hours
(lumen maintenance factor 70%)
Weight: 260 g
Optional parts: Bracket
※ Power source is sold separately.
PWM: Dimmer-compatible

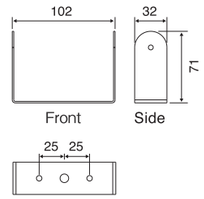
	Luminous flux	Rated power consumption
2.5°	40.8–143 lm	2.9–4.1W

Dimensions

Unit: mm



Bracket (sold separately)



Connection cable

An extensive range of color variations is also available.

Beam angle 2.5°

Spotlight with a single chip LED to realize low power consumption and miniaturization

By efficiently harnessing the LED light to create a narrow beam, a single LED chip can be used to produce various effects, achieving spot lighting in a compact unit at low cost.
Abundant color variations are available to meet the demands for a wide range of lighting effects.
Possessing a high level of resistance to water and dust, the lighting fixture can be used in any kind of environment.

Ultra-narrow light distribution	Narrow angle light distribution with a 1/2 beam angle of 2.5° has been achieved.
Low power consumption	Operates with power as low as 2.9 W.
Compact & lightweight	A very compact and light body at ϕ98 mm and 260 g.
Water/dust proof	Waterproof module that meets IP65.
Variety in color	Available in 5000K, 4000K, 3000K, red, green, blue, and amber.

Illumination range

Beam Angle 2.5° [LLM0854A/LIGHTING EQU50:5000K]

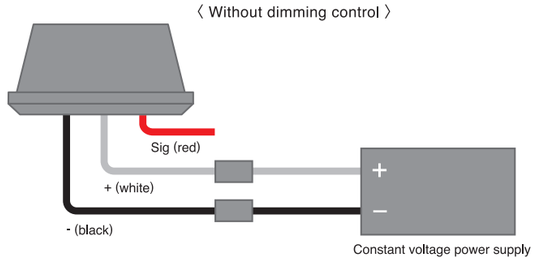
D(m)	Φ(m)※	Center Beam Illuminance (lx)
1	0.24	86,000
2	0.33	21,500
5	0.54	3,440
10	0.63	860

※ 50 lux or higher

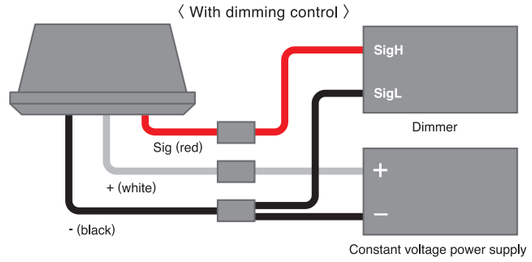
Specification	5000K	4000K	3000K	Red	Green	Blue	Amber
LLM0854A / □□□□□							
Part No.	LIGHTING EQU50	LIGHTING EQU40	LIGHTING EQU30	LIGHTING EQU60	LIGHTING EQU70	LIGHTING EQU80	LIGHTING EQU90
1/2 Beam angle 2.3° ~ 2.6°							
Center luminous intensity (cd)	86,000	76,000	62,350	9,290	48,280	19,200	31,270
Luminous flux (lm)	143	117	104	40.8	92.2	56.3	88.4
1/2 Beam angle	2.5°	2.5°	2.5°	2.6°	2.3°	2.3°	2.6°
Color rendering index (Ra)	70	80	80	—	—	—	—
Rated power consumption (W)	2.9	2.9	2.9	2.9	2.9	2.9	2.9

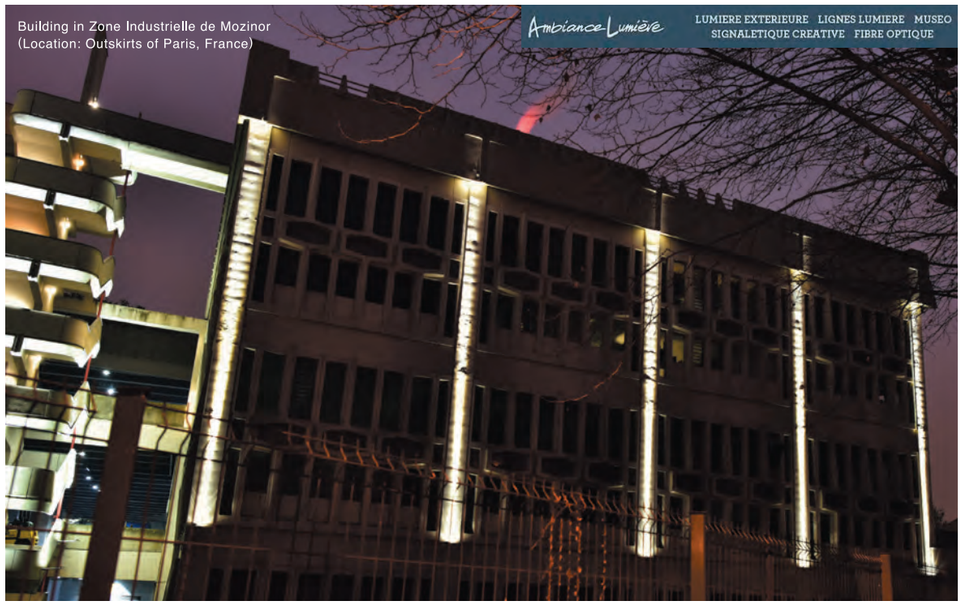
Wiring of the Power Source

〈 Without dimming control 〉



〈 With dimming control 〉





LEDSFOCUS GOLD

Achieving luminescent colors that highlight gold color

LEDSFOCUS GOLD, created based on Stanley Electric's proprietary phosphor blending technology, create vivid, unique gold-colored light. Compared to white floodlight, illuminating golden surfaces such as temples and Buddha statues with gold light can bring out the beautiful color even more. Furthermore, non-golden objects can be dyed gold with this floodlight.

LED floodlight with ultra-narrow light distribution ■LLF0111A ■LLF0112A ■LLF0113A

Ultra-narrow light distribution 1/2 beam angle	Ultra-narrow light distribution at a minimum of 2.5° enables bright illumination of distant objects.
Light distribution control	Light distribution can be controlled in 1° increments between 2.5° and 10° for accurate illumination of the subject. In addition, a high output medium angle light distribution of 10 to 50° is available for various applications.
Beautiful light projection	Our unique LED / lens design technology can achieve beautiful and uniform projection lighting.
Heavy duty	The waterproof and dustproof structure of IP66 as well as the excellent heavy salt resistance specifications, provide maximum performance in harsh environments.
Wide variety of customization	Light distribution, light color, size, body color, and optional parts can be freely customized, making this product suitable for any scenario..

Heat resistance / Vibration resistance 1G / Noise resistance / UV resistance / Heavy salt resistance / High waterproof IP65

※ These photos are for illustrative purposes.

※ Photos are for illustrative purposes.

LED floodlight with ultra-narrow light distribution ■LLM0545A

Ultra-narrow light distribution	Achieved a narrow-angle and oval light distribution whose 1/2 beam angle is 4° x 3°.
Thin and lightweight	Just 47 mm thick (light source) and weighing only 2.3 kg (bracket excluded), it can be installed anywhere.
Low power consumption	Power consumption is as low as 39.4 W.
Waterproof/dustproof	Available for outdoor usage (IP65).

Heat resistance / Vibration resistance 1G / Noise resistance / UV resistance / High waterproof IP65

Outdoor LED floodlight ■LLF0059A

Heavy duty	We provide high quality and reliable LED floodlights which have passed harsh environmental endurance tests.
Automobile headlamp technology	Utilizing our technology of light distribution developed through designing automobile headlamps, we materialized a high distribution uniformity.
Energy efficient and eco-friendly	The higher efficiency enables energy savings and thus contributes to the reduction of greenhouse gases.

Vibration resistance 1G / Noise resistance / Heavy salt resistance / High waterproof IP66

※ These photos are for illustrative purposes.

LLF0111A / LLF0112A / LLF0113A

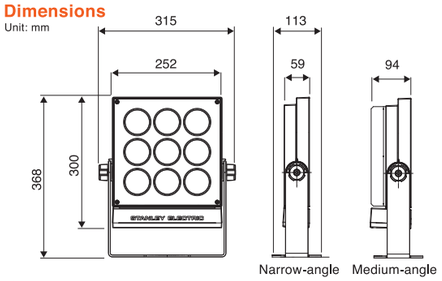
LLF0111A

Specifiction

Body: Aluminum die casting / Front cover: Polycarbonate / Secondary lens: Acrylic / Ambient temperature: -25–50 °C
Waterproof and dustproof: IP66 / Light source life: 50,000 hours (lumen maintenance factor 70%)
Power supply: Built in / Weight: Narrow-angle type (2.5–9°) 5.4 kg, Medium-angle type (10–50°) 6.4 kg

Dimensions

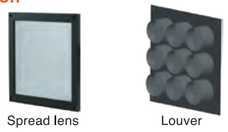
Unit: mm



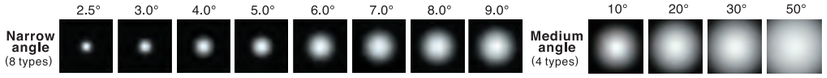
Color

Charcoal grey
(Standard color)

Option



Beam angle



■Narrow-angle type LLF0111A / LWWD035 / □□ / □ / □□
■Medium-angle type LLF0111A / LWWD056 / □□ / □ / □□

Part No.	1/2 Beam angle	Center luminous intensity (cd)	Luminous flux (lm)	Rated power consumption (W)
YE/N/VN	2.5°	1,020,000	1,600	35.7
YE/N/03	3.0°	726,000	1,600	35.7
YE/N/04	4.0°	392,000	1,600	35.7
YE/N/05	5.0°	224,000	1,600	35.7
YE/N/06	6.0°	164,000	1,600	35.7
YE/N/07	7.0°	125,000	1,600	35.7
YE/N/08	8.0°	94,600	1,600	35.7
YE/N/09	9.0°	78,500	1,600	35.7
YE/N/10	10°	173,000	4,430	55.7
YE/N/20	20°	62,900	4,430	55.7
YE/N/30	30°	27,600	4,430	55.7
YE/N/50	50°	9,850	4,430	55.7

Please refer to the table on p. 30 for the dimming type. ※Values in this catalog are for reference only and are not guaranteed.

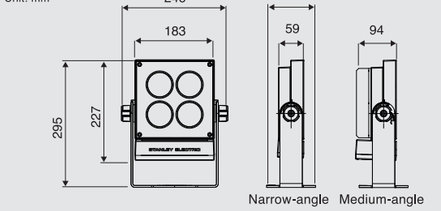
LLF0112A

Specifiction

Body: Aluminum die casting / Front cover: Polycarbonate / Secondary lens: Acrylic
Ambient temperature range of use: -20–50 °C (narrow angle), -25–50 °C (medium angle) / Waterproof and dustproof: IP66
Light source life: 50,000 hours (lumen maintenance factor 70%) / Power supply: Built in
Weight: Narrow-angle type (2.5–9) 3.5 kg, Medium-angle type (10–30) 4.2 kg

Dimensions

Unit: mm

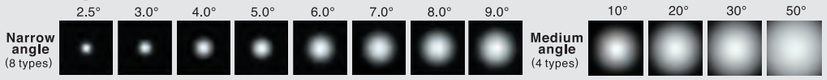


Color

Charcoal grey
(Standard color)

Option

Beam angle



■Narrow-angle type LLF0112A / LWWD017 / □□ / □ / □□
■Medium-angle type LLF0112A / LWWD028 / □□ / □ / □□

Part No.	1/2 Beam angle	Center luminous intensity (cd)	Luminous flux (lm)	Rated power consumption (W)
YE/N/VN	2.5°	455,000	710	16.9
YE/N/03	3.0°	310,000	710	16.9
YE/N/04	4.0°	161,000	710	16.9
YE/N/05	5.0°	90,800	710	16.9
YE/N/06	6.0°	66,400	710	16.9
YE/N/07	7.0°	50,500	710	16.9
YE/N/08	8.0°	37,900	710	16.9
YE/N/09	9.0°	31,400	710	16.9
YE/N/10	10°	84,200	2,160	28.3
YE/N/20	20°	30,900	2,160	28.3
YE/N/30	30°	13,400	2,160	28.3
YE/N/50	50°	4,820	2,160	28.3

Please refer to the table on p. 34 for the dimming type. ※Values in this catalog are for reference only and are not guaranteed.

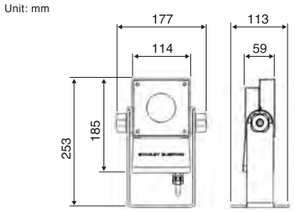
LLF0113A

Specifiction

Body: Aluminum die casting / Front cover: Polycarbonate / Secondary lens: Acrylic / Ambient temperature: -25–50 °C
Waterproof and dustproof: IP66 / Light source life: 50,000 hours (lumen maintenance factor 70%)
Weight: 2.5 kg

Dimensions

Unit: mm

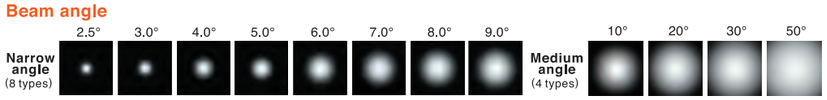


Color

Charcoal grey
(Standard color)

Option

Beam angle



■Narrow-angle type LLF0113A / LWWD007 / □□ / □ / □□
■Medium-angle type LLF0113A / LWWD010 / □□ / □ / □□

Part No.	1/2 Beam angle	Center luminous intensity (cd)	Luminous flux (lm)	Rated power consumption (W)
YE/N/VN	2.5°	79,300	129	7.10
YE/N/03	3.0°	53,300	129	7.10
YE/N/04	4.0°	27,100	129	7.10
YE/N/05	5.0°	15,200	129	7.10
YE/N/06	6.0°	11,100	129	7.10
YE/N/07	7.0°	8,440	129	7.10
YE/N/08	8.0°	6,220	129	7.10
YE/N/09	9.0°	5,310	129	7.10
YE/N/10	10°	17,300	480	9.80
YE/N/20	20°	6,230	480	9.80
YE/N/30	30°	2,710	480	9.80
YE/N/50	50°	964	480	9.80

※Values in this catalog are for reference only and are not guaranteed.

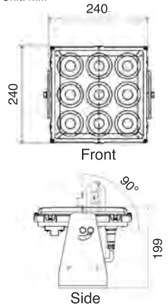
LEDSFOCUS GOLD **LLM0545A**

Specifiction

Center luminous intensity: 667,000 cd
Luminous flux: 3,300 lm
1/2 beam angle: 4×3°
Body: Aluminum die casting
Outer lens: Polycarbonate
Bracket (sold separately): stainless steel
Rated power consumption (exd. power source): 39.4 W
Maximum power consumption (excl. power source): 45.7 W
Ambient temperature: -30–50 °C
Waterproof and dustproof: IP65
light source lifetime: 40,000 hours (lumen maintenance factor 70%)
Power supply: Placed separately (sold separately)
Weight: 2.3 kg
Optional parts: Power source, bracket,10 m cable

Dimensions

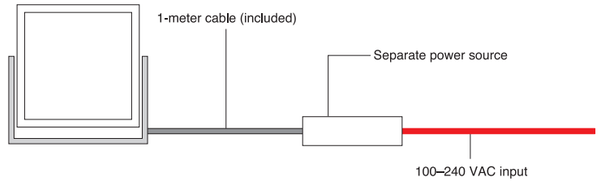
Unit: mm



Bracket with angle adjustment structure (sold separately)

Beam angle 4×3°

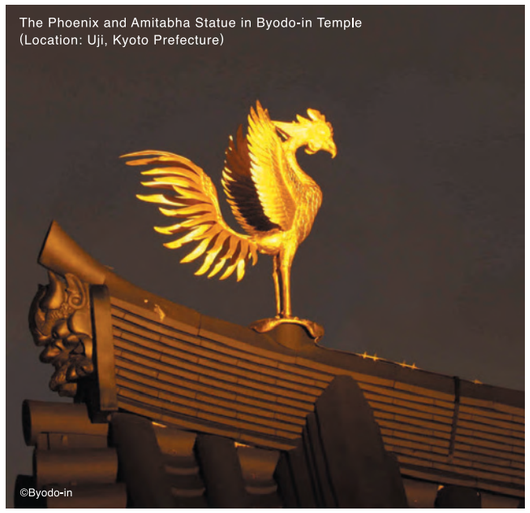
Wiring of the Power Source



Illumination range

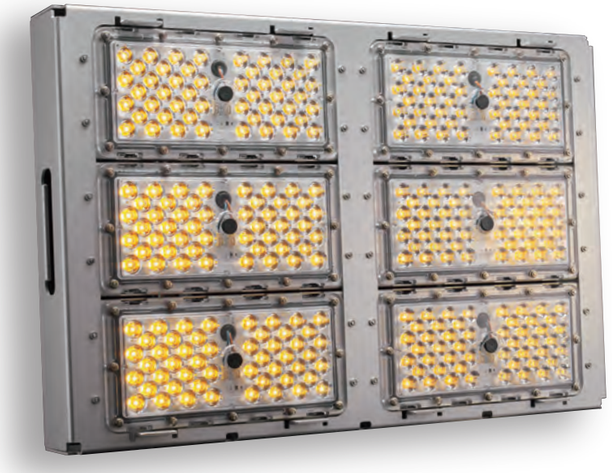
Beam Angle 4×3° [LLM0545A_UB: Gold]

D (m)	Φ (m)	Center Beam Illuminance (lx)
30	6	481
50	7.1	174
100	11.2	43
500	—	1.7
1000	—	0.4


The Phoenix and Amitabha Statue in Byodo-in Temple
(Location: Uji, Kyoto Prefecture)
©Byodo-in


That Luang (Location: Vientiane, Laos)

LEDSFOCUS GOLD **LLF0059A**

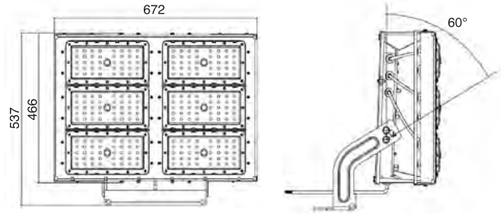


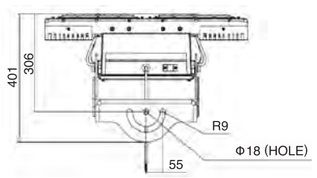
Specifiction

Equipment flux (at 220 V): 32,940 lm
Body: Aluminum sheet, Aluminum die casting
Power consumption: 425W (at 220 V)
Input voltage: AC 90–305 V
Lightning surge protection: 15 kV (Common mode)
Light distribution angle: 1/10 Beam angle
Narrow angle 26° / Medium angle 50° / Wide angle 100°
Ambient temperature: -20–40 °C
Weight: 18.8 kg
Waterproof and dustproof: IP66
light source lifetime: 60,000 hours (lumen maintenance factor 70%)
Wind resistance: 70 m/s

Dimensions

Unit: mm





Narrow angle variations


Rama VIII Bridge (Bangkok, Thailand)

An extensive range of color variations is also available.

Heat resistance

VIbration resistance 1G

Noise resistance

UV resistance

High waterproof IP65

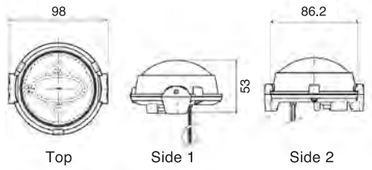
Specifiction

Body: Aluminum die casting
Lens: Polycarbonate
Rated input current: 0.7 A
Ambient temperature: -30–50 °C
Waterproof and dustproof: IP65
Light source lifetime: 40,000 hours
(lumen maintenance factor 70%)
Weight: 230 g
Optional Parts: Bracket
※ Power source is not sold by our company.

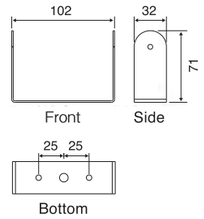
	Luminous flux	Rated power consumption
2.5 · 2.8°	980–4,120 cd	4.9–6.8W

Dimensions

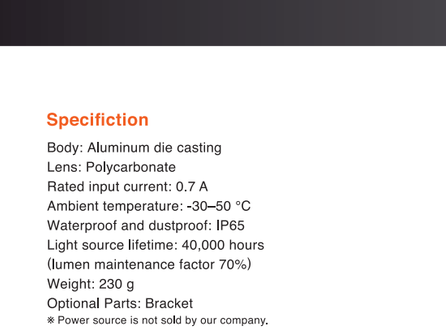
Unit: mm



Bracket (sold separately)



Connection cable



※ Photos are for illustrative purposes.

Low power linear lighting with efficiently focused narrow light, housed in a compact body

We designed a lens that uses ultra-narrow light distribution technology instead of a light-shielding method.
By efficiently squeezing the LED light to create a narrow ray of light, we have realized a low-power and small-sized linear distribution lighting that can be used for various productions with just a few LEDs.
Abundant color variations are available to meet the demands for a wide range of light-up effects.
Possessing a high level of resistance to water and dust, thae lighting fixture can be used in any kind of environment.

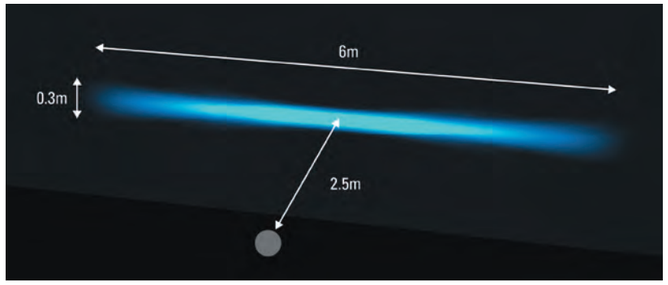
Linear light distribution / A vivid track of light is achieved.

Compact and lightweight / Avery compact and light body with ϕ 98 mm and 230 g.

Low power consumption / Operates with power as low as 4.9–6.8 W.

Waterproof/dustproof / Waterproof module that meets IP65.

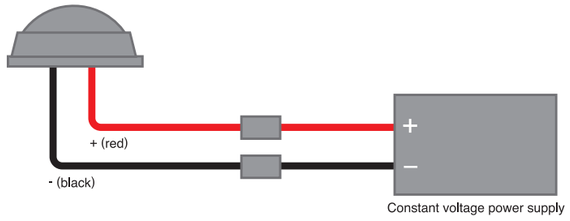
Color variations / Available in 5000K, 4000K, 3000K, red, green, blue, and amber.

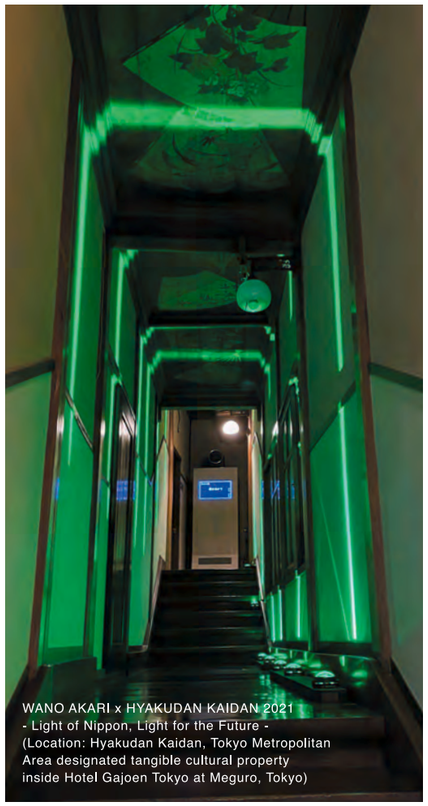


Specification	5000K	4000K	3000K	Red	Green	Blue	Amber
LLM1389A / □□□□□							
Part No.	LIGHTING EQU50	LIGHTING EQU40	LIGHTING EQU30	LIGHTING EQU60	LIGHTING EQU70	LIGHTING EQU80	LIGHTING EQU90
1/2 Beam angle (°) short end	2.5	2.5	2.5	2.8	2.5	2.5	2.8
1/2 Beam angle (°) longitudinal	70	70	70	78	76	76	70
Color temp./Color lineup	5000K	4000K	3000K	Red	Green	Blue	Amber
Center luminous intensity (cd)	4,120	3,620	3,460	980	2,780	1,190	2,840
Color rendering index (Ra)	70	80	80	—	—	—	—
Input voltage	8.5 V	8.5 V	8.5 V	7.0 V	9.5 V	9.7 V	8.9V
Power consumption	6.0 W	6.0 W	6.0 W	4.9 W	6.6 W	6.8 W	6.2W

1/2 Beam angle
2.5°
2.8°

Wiring of the Power Source





WANO AKARI x HYAKUDAN KAIDAN 2021
- Light of Nippon, Light for the Future -
(Location: Hyakudan Kaidan, Tokyo Metropolitan Area designated tangible cultural property inside Hotel Gajoen Tokyo at Meguro, Tokyo)

Karawang International Industrial City
(Location: near Jakarta, Indonesia)

Providing light to ensure safety on the road

LEDSROAD

LED road lighting | LLF0016A LLF0139A LLF0017A

Visualization of when light is turned on

Heat resistance

Vlbration resistance 2G

Noise resistance

UV resistance

Heavy salt resistance

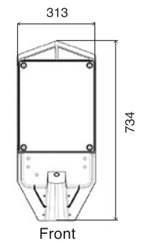
High waterproof IP66

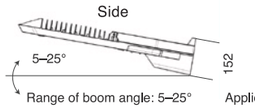
Specifiction

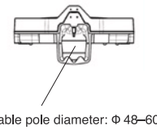
Body: aluminum die cast, Outer cover: Tempered glass
Color temperature: 4000K
Waterproof and dustproof: IP66
LED light source lifetime: 60,000 hours
(lumen maintenance factor 70%)
Shock resistance: IK08
Vibration resistance: 2G
Ambient temperature: -20–50 °C
Wind resistance: 60 m/s
Input voltage: AC 100–240 V
Lightning surge protection pressure resistance:
20 kV (Common mode)
Weight: 10 kg

Dimensions

Unit: mm





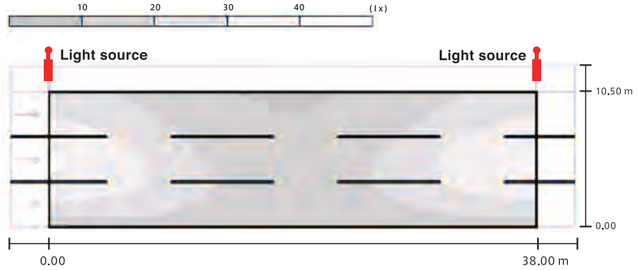


Thin body to match the surroundingsLED road lighting that can withstand harsh environments

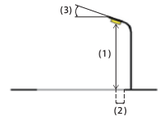
With a lightning surge tolerance as high as 20 kV, this product delivers peace of mind with its long service life under harsh conditions. The risk of insects getting inside the product is very low, because it is designed with high airtightness (IP66), including parts other than the light source. Combination of 6 output types and 4 light distribution patterns meets various needs. Installation for this lighting fixture is simple because opening / closing of the cover does not require a tool.

Design that suits urban areas	Implemented optimal control of light distribution with a slim body that matches a variety of scenes.
High tolerance to UV	Tempered glass is used for the outer lens of the light-emitting part, and the optical lenses are made of acryl.
High tolerance to heat	Tolerates ambient temperatures up to 50 °C.
Wide range of input voltage	Supports voltages in the range of AC 90–305 V; usable in regions with unstable voltage. ※ Performance in the voltage range outside the rated voltage is not guaranteed.
Wide variety of lenses	Uniform light distribution on road surfaces is provided by selecting the appropriate lens from 4 different options.
Maintenance & upgrading	In addition to the power source part, we unitized the LED part so it can be replaced or upgraded as a unit.

Simulation of Light Distribution



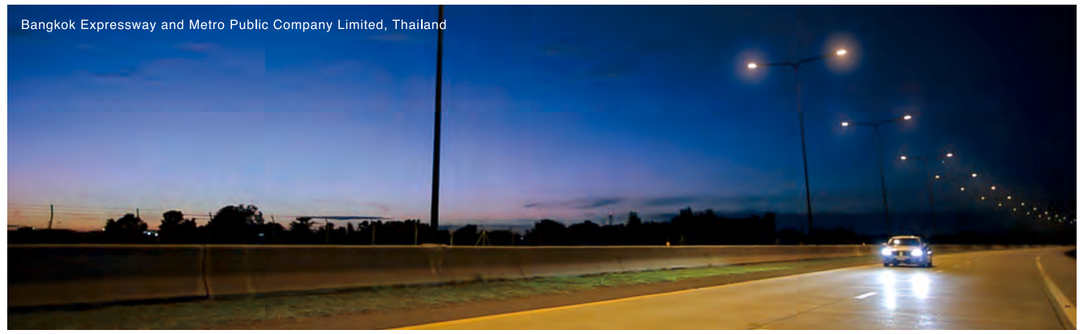
Computational Condition
Number of traffic lanes: 3
Fixture: LLF0016A/LEN2/72/E/IN/A
Installation height (1): 12.3 m
Overhang (2): 0.417 m
Inclination angle of the boom (3): 5°
Space between poles: 38 m
Maintenance factor: 0.7



Average illuminance: 22 lx
Overall uniformity ratio of illuminance 1 (min/ave): 0.42
Overall uniformity ratio of illuminance 2 (min/ave): 0.23

Part No.	LLF0016A/LEN✳/56/E/IN/A	LLF0016A/LEN✳/64/E/IN/A	LLF0016A/LEN✳/72/E/IN/A	LLF0016A/LEN✳/76/E/IN/A	LLF0016A/LEN✳/80/E/IN/A	LLF0016A/LEN✳/96/E/IN/A
Power Consumption (at 220 V)	117 W	134 W	150 W	159 W	167 W	202 W
Fixture Luminous Flux	15,000 lm	17,200 lm	19,400 lm	20,400 lm	21,500 lm	25,800 lm
Energy Consumption	129 lm/W	129 lm/W	129 lm/W	129 lm/W	129 lm/W	129 lm/W
Type of Road	General	General	General / Expressway	General / Expressway	General / expressway	Expressway

Adoption example


Bangkok Expressway and Metro Public Company Limited, Thailand


Karawang International Industrial City (KIIC), Indonesia


Asia Industrial Estate, a suburb of Bangkok,Thailand


Cao Lo Street - Dong Anh Province,Vietnam


Confluence road of National Highway No.3 - Dong Anh Province,Vietnam

The light on

Heat resistance

Vlbration resistance 2G

Noise resistance

UV resistance

Heavy salt resistance

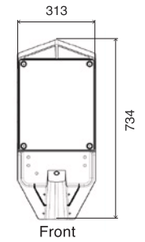
High waterproof IP66

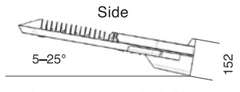
Specifiction

Body: Aluminum die cast, Outer cover: Tempered glass
Color temperature: 4000K
Waterproof and dustproof: IP66
LED light source lifetime: 60,000 hours
(lumen maintenance factor 70%)
Shock resistance: IK08
Vibration resistance: 2 G
Ambient temperature: -20–50 °C
Wind resistance: 60m/s
Input voltage: AC 100–240 V
Lightning surge protection pressure resistance:
20 kV (Common mode)
Weight: 10 kg

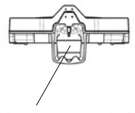
Dimensions

Unit: mm





Range of boom angle: 5–25°



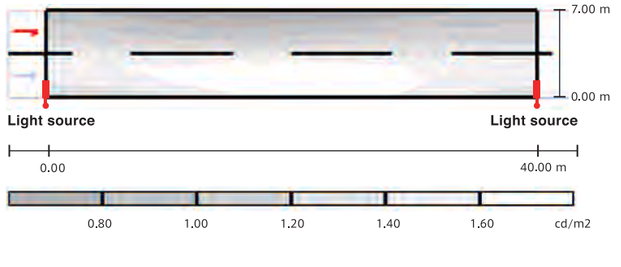
Applicable pole diameter: Φ 48–60.5

LED road lighting that maintains stable and long-term operation in all kinds of environment

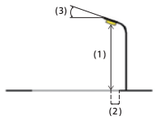
The parts other than the light source are also airtight (IP66), so there is no need to worry about insects or other intruders.
Three output types are available in the line-up.
Tool-less opening and closing of the cover simplifies installation.

Design that suits urban areas	Implemented optimal control of light distribution with a slim body that matches a variety of scenes.
High tolerance to UV	Tempered glass is used for the outer lens of the light-emitting part, and the optical lenses are made of acrylic.
High tolerance to heat	Ambient temperature is +50°C at the highest.
Wide range of input voltage	Supports voltages in the range of AC 90–305 V; usable in regions with unstable voltage. ※ Performance in the voltage range outside the rated voltage is not guaranteed.
Maintenance & upgrading	In addition to the power source part, we unitized the LED part so it can be replaced or upgraded as a unit.

Simulation of Light Distribution



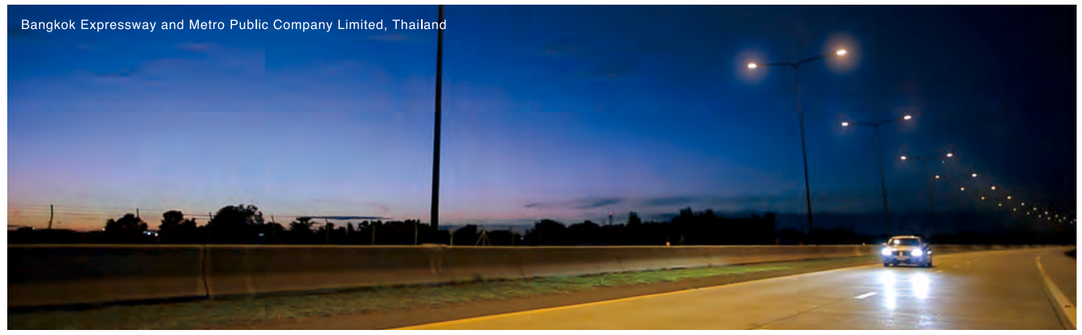
Computational Condition
Number of traffic lanes: 2
Fixture: LLF0139A/LEN1/120/E/IN/A
Installation height (1): 10 m
Overhang (2): 0 m
Inclination angle of the boom (3): 5°
Space between poles: 40 m
Maintenance factor: 0.7



Average brightness: 1.19 cd/m²
Uniformity ratio of illuminance 0.51
Uniformity ratio of illuminance: 0.78
Relative threshold increase: 11%

Part No.	LLF0139A/LEN1/120/E/IN/A	LLF0139A/LEN1/144/E/IN/A	LLF0139A/LEN1/168/E/IN/A
Power Consumption (at 220V)	121W	140W	167W
Fixture Luminous Flux	14,000lm	16,700lm	19,700lm
Energy Consumption	116lm/W	119lm/W	118lm/W
Type of Road	general	general	general

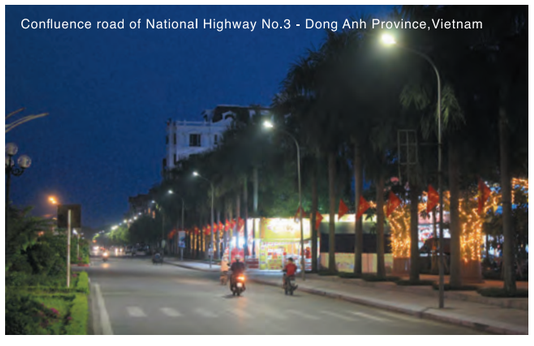
Adoption example


Bangkok Expressway and Metro Public Company Limited, Thailand


Karawang International Industrial City (KIIC), Indonesia


Asia Industrial Estate, a suburb of Bangkok,Thailand


Cao Lo Street - Dong Anh Province,Vietnam


Confluence road of National Highway No.3 - Dong Anh Province,Vietnam

Heat resistance

Vlbration resistance 2G

Noise resistance

UV resistance

Heavy salt resistance

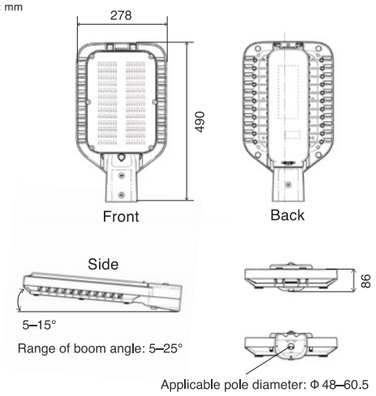
High waterproof IP66

Specifiction

Body: Aluminum die cast, Outer cover: Tempered glass
Color temperature: 4000K
Waterproof and dustproof: IP66
LED light source lifetime: 60,000 hours
(lumen maintenance factor 70%)
Shock resistance: IK08
Vibration resistance: 2 G
Ambient temperature: -40–55 °C
Wind resistance: 60 m/s
Input voltage: AC 100–240 V
※42 W type has rated voltage AC 200–240 V
Lightning surge protection pressure resistance:
10 kV (Common mode)
Weight: 5.0 kg

Dimensions

Unit: mm



Sophisticated, compact, and lightweight body for a variety of situations

We created this compact and lightweight body which includes an inbuilt power source.
The risk of insects getting inside the product is very low, because it is designed with high airtightness (IP66), including parts other than the light source.
Its wide light-distribution and high utilization factor allow a minimum number of fixtures needed to be installed.
Installation of this lighting fixture is simple because opening and closing of the cover does not require a tool.

Design that suits urban areas — Implemented optimal control of light distribution with a slim body that matches a variety of scenarios.

High tolerance to UV — Tempered glass is used for the outer lens of the light-emitting part, and the optical lenses are made of acrylic.

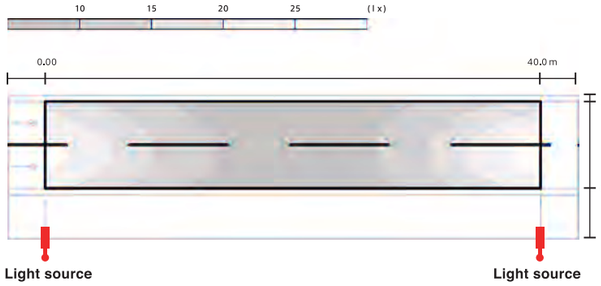
High tolerance to heat — Tolerates ambient temperatures up to 55 °C.

Wide range of input voltage — Voltage for lighting can be in the range of AC 90–305 V; usable in regions with unstable voltage.
※ The input Supports voltages in the range of the 42 W type is AC 160–305 V.
※ Performance in the voltage range outside the rated voltage is not guaranteed.

Maintenance & upgrading — In addition to the power source part, we unitized the LED part so it can be replaced or upgraded as a unit.

High brightness & efficiency — Realized an average road surface brightness of 0.95cd/㎡ with power consumption of 90W, while the standard brightness value is EN13201-2 lighting grade ME4a (L≥0.75cd/㎡)
※ For computational conditions, please refer to Simulation of Light Distribution on the upper right corner of the next page.

Simulation of Light Distribution

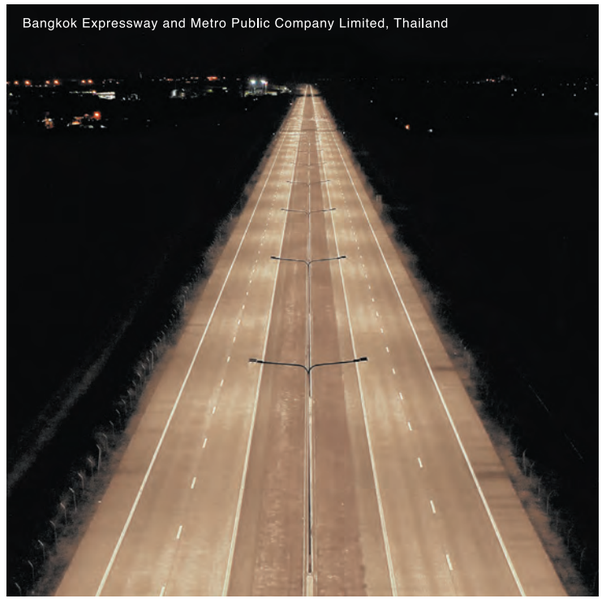


Computational Condition
Number of traffic lanes: 2
Fixture: LLFO017A/LEN1/104/E/IN/A
Installation height (1): 10.05 m
Overhang (2): 0.7 m
Indination angle of the boom (3): 5°
Space between poles: 40 m
Maintenance factor: 0.7

Average brightness: 0.95 cd/m²
Uniformity ratio of illuminance (overall): 0.51
Uniformity ratio of illuminance (longitudinal): 0.75
Relative threshold increase: 13%
Lighting classification: ME4a

Part No.	LLF0017A/LEN1/72/E/IN/A	LLF0017A/LEN1/80/E/IN/A	LLF0017A/LEN1/104/E/IN/A
Power Consumption (at 220 V)	42 W	70 W	90 W
Fixture Luminous Flux	5,300 lm	8,400 lm	11,000 lm
Energy Consumption	126 lm/W	120 lm/W	122 lm/W
Type of Road	General	General	General

Adoption example

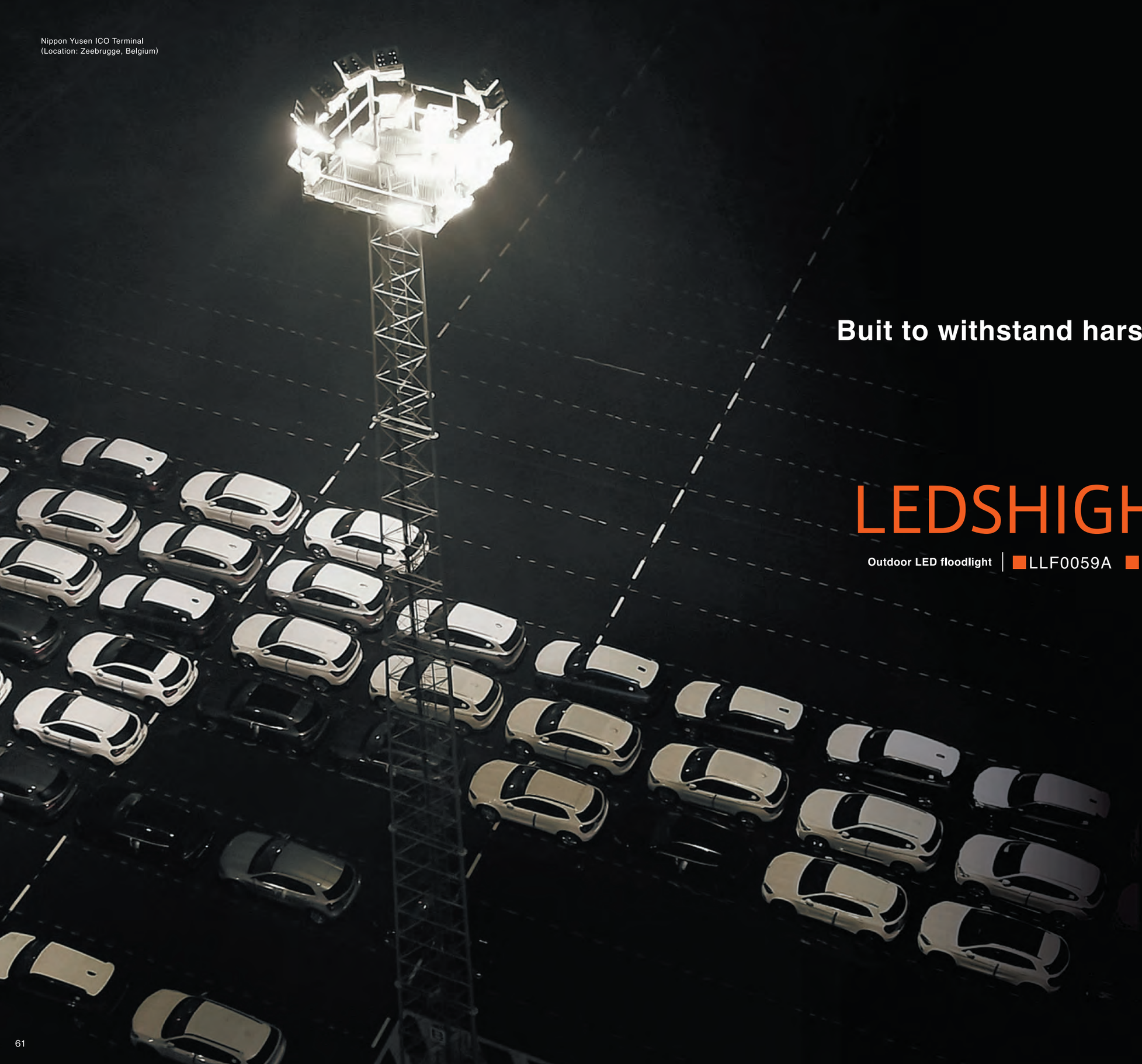

Bangkok Expressway and Metro Public Company Limited, Thailand


Stanley Electric's Hadano Factory in Kanagawa


Karawang International Industrial City (KIIC), Indonesia


Asia Industrial Estate, a suburb of Bangkok,Thailand

Nippon Yusen ICO Terminal
(Location: Zeebrugge, Belgium)



Buit to withstand harsh environments

LEDSHIGHMAST

Outdoor LED floodlight | LLF0059A LLF0011A LLF0012A

VIbration resistance 2G

Noise resistance

Heavy salt resistance

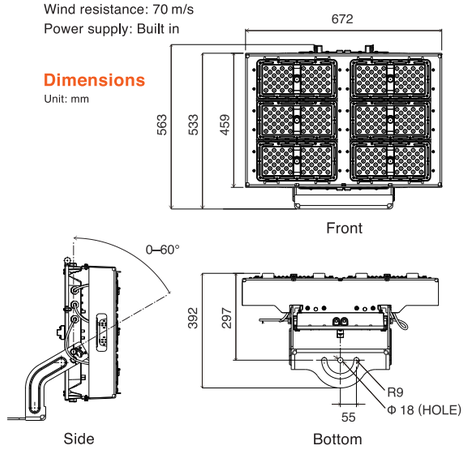
High waterproof IP66

Specifiction

Body: Aluminum sheet metal
Outer cover: Polycarbonate
Power consumption: Consumption: 460 W (at 220 V)
Input voltage: AC 90–305 V
Lightning surge protection pressure resistance: 15kV (Common mode)
Color rendering property: Ra72
Ambient temperature: -20–40 °C
Weight: 18.8 kg
Waterproof and dustproof: IP66
LED light source lifetime: 60,000 hours (lumen maintenance factor 70%)
Wind resistance: 70 m/s
Power supply: Built in

Dimensions

Unit: mm



Excellent durability


UV


Severe weather


Dust


Vibration


Salt damage


Extreme temperature

High luminous flux LED floodlight that meets strict environmental standards at ports and harbors

With dust and water resistance that meets IP66 rating standards, this lighting can be used in coastal areas, which require tolerance to heavy salt.
This product delivers a sufficient quantity of light to irradiate a vast area, and we provide wide and narrow light distributions.

Built to withstand harsh environments — We provide LED floodlights with high quality and reliability, that have passed endurance tests for harsh environments.

Automobile lamp technology — We achieved light distribution with greater uniformity by utilizing the light distribution designs and technology developed over the years through our work designing automobile headlamps

Energy efficient & eco-friendly — The higher efficiency enables energy saving and thus contributes to a reduction in greenhouse gases.

Comparison of Energy Efficiency

General Sodium Lamp

Power consumption per unit 940 W※1 → -51% → LLF0059A 460 W

Light source life 12,000 h※2 → 5 times → LLF0059A 60,000 h+

※1 Power consumption per lighting fixture
※2 Lifetime of the light source

Comparison of CO2 Emissions

General Sodium Lamp

Power consumption per 50 units 47 kW※1 → -51% → LLF0059A 23 kW

Greenhouse gas emissions (CO2) per 300 days 7.5 t※2 → -60% → LLF0059A 3 t

※1 Power consumption per 50 lighting fixtures
※2 Amount of greenhouse gas (CO2) emission (per 300 days)

Part No.	LLF0059A/145✻/06/J/I/D/N			LLF0059A/145✻/06/E/I/D/N			LLF0059A/145✻/06/C/I/D/N		
Color Temperature	5700K (White)			4000K (Warm white)			3000K (Lamp color)		
Light Distribution Angle	Narrow angle	Middle angle	Wide angle	Narrow angle	Middle angle	Wide angle	Narrow angle	Middle angle	Wide angle
Light Distribution Angle (1/2 beam angle)	15°	32°	46°	15°	32°	46°	15°	32°	46°
Light Distribution Angle (1/10 beam angle)	26°	50°	100°	26°	50°	100°	26°	50°	100°
Fixture Luminous Flux (at 220 V)	63,746 lm			62,130 lm			59,147 lm		
Energy Consumption	139 lm/W			135 lm/W			129 lm/W		

Adoption example


Terminal for ICO (International Car Operators N.V.) and NYK LINE in Zeebrugge, Belgium

VIbration resistance 2G

Noise resistance

Heavy salt resistance

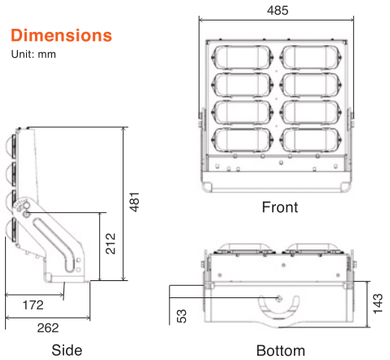
High waterproof IP66

Specifiction

Body: aluminum sheet-metal
Outer cover: Polycarbonate
Color temperature: 5000K
Power Consumption: 340 W(at 220 V)
Input voltage: AC 100–240 V
Lightning surge protection pressure resistance: 15kV (Common mode)
Color rendering property: Ra70
Ambient temperature: -20–40 °C
Weight: 13.5 kg
Waterproof and dustproof: IP66
LED light source lifetime: 60,000 hours (lumen maintenance factor 70%)
Wind resistance: 60 m/s
Power supply: Built in

Dimensions

Unit: mm



Excellent durability

Excellent durability and high luminous flux even under various unfavorable conditions and in poor environments

With dust and water resistance that meets IP66 rating standards, this lighting can be used in coastal areas, which require tolerance to heavy salt.
This product delivers a sufficient quantity of light to irradiate a vast area, and we provide wide and narrow light distributions.

Built to withstand harsh environments — We provide LED floodlights with high quality and reliability, that have passed endurance tests for harsh environments.

Automobile lamp technology — We achieved light distribution with greater uniformity by utilizing the light distribution designs and technology developed over the years through our work designing automobile headlamps

Energy efficient & eco-friendly — The higher efficiency enables energy saving and thus contributes to a reduction in greenhouse gases.

Comparison of Energy Efficiency

General Sodium Lamp

Power consumption per unit 940 W※1 → -64% → LLF0011A 340 W

Light source life 12,000 h※2 → 5 times → LLF0011A 60,000 h+

※1 Power consumption per lighting fixture
※2 Lifetime of the light source

Comparison of CO2 Emissions

General Sodium Lamp

Power consumption per 50 units 47 kW※1 → -65% → LLF0011A 16.5 kW

Greenhouse gas emissions (CO2) per 300 days 7.5 t※2 → -67% → LLF0011A 2.5 t

※1 Power consumption per 50 lighting fixtures
※2 Amount of greenhouse gas (CO2) emission (per 300 days)

Part No.	LLF0011A/FLOODLIGHT 3	LLF0011A/FLOODLIGHT 1
Color Temperature	5000K (White)	5000K (White)
Light Distribution Angle	(Narrow angle)	(Wide angle)
Light Distribution Angle (1/2 beam angle)	19°	72°
Light Distribution Angle (1/10 beam angle)	35°	102°
Fixture Luminous Flux (at 220 V)	38,400 lm	40,800 lm
Energy Consumption	113 lm/W	120 lm/W

Adoption example


Sapporo Ryutsu System in Aichi Prefecture

VIbration resistance 5G

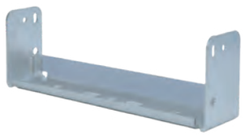
Noise resistance

Heavy salt resistance

High waterproof IP66

Horizontal bracket
(Bottom)

Direct mount bracket

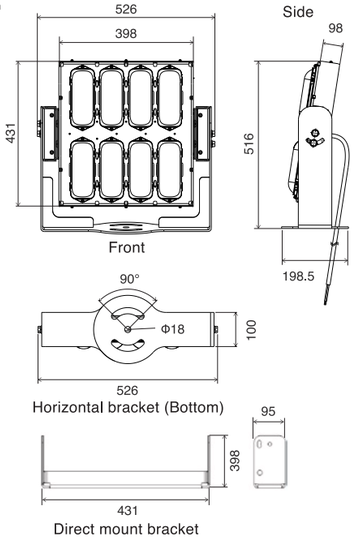


Specifiction

Body: Aluminum sheet metal
Outer cover: Polycarbonate
Power consumption: Consumption: 335 W (at 220 V)
Input voltage: AC 100–240 V
Lightning surge protection pressure resistance:
15kV (Common mode)
Ambient temperature: -30–50 °C
Weight: 12.5 kg
Waterproof and dustproof: IP66
LED light source lifetime: 60,000 hours
(lumen maintenance factor 70%)
Wind resistance: 60 m/s
Power source: dedicated power source (sold separately)
Attachment arm: Horizontal bracket type
and direct mount bracket type (Product name-2)

Dimensions

Unit: mm



Excellent durability


UV


Severe weather


Dust


Vibration


Salt damage


Extreme temperature

Excellent vibration resistance, ideal for installation in port facilities

n order to enable its use in harsh environments,
we used as a base an existing lighting fixture with a track record
of use in extremely salty areas.
We also analyzed what part of the fixture would be most affected by shocks
when used on a crane, and developed the arm with special quake-proof performance.

Quake-proof structure — It can be used in environments with strong vibrations, as it is equipped with quake-proofing.

Heavy duty — We provide high quality and reliable LED floodlights which have passed harsh environment endurance tests.

Automobile headlamp technology — We achieved light distribution with greater uniformity by utilizing the light distribution designs and technology developed over the years through our work designing automobile headlamps

Energy efficient & eco-friendly — The higher efficiency enables energy saving and thus contributes to a reduction in greenhouse gases.

Comparison of Energy Efficiency

General Sodium Lamp

Power consumption per unit **940 W**※1 → -62% → **LLF0012A 355 W**

Light source life **12,000 h**※2 → 5 times → **LLF0012A 60,000 h+**

※1 Power consumption per lighting fixture
※2 Lifetime of the light source

Comparison of CO2 Emissions

General Sodium Lamp

Power consumption per 50 units **47 kW**※1 → -64% → **LLF0012A 17 kW**

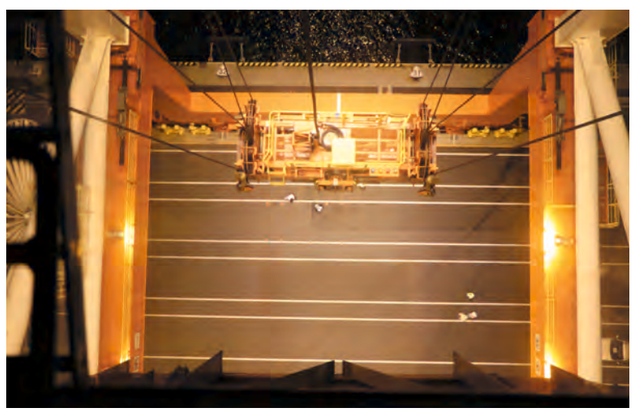
Greenhouse gas emissions (CO2) per 300 days **7.5 t** → -67% → **LLF0012A 2.5 t**

※1 Power consumption per 50 lighting fixtures
※2 Amount of greenhouse gas (CO2) emission (per 300 days)

Part No.	LLF0012A/ FLOODLIGHT 3	LLF0012A/ FLOODLIGHT 2	LLF0012A/ FLOODLIGHT 1	LLF0012A/ FLOODLIGHT 33	LLF0012A/ FLOODLIGHT 23	LLF0012A/ FLOODLIGHT 13
Color Temperature		5000K (White)			3000K (Lamp color)	
Light Distribution Angle	Narrow angle	Meddle angle	Wide angle	Narrow angle	Meddle angle	Wide angle
Light Distribution Angle (1/2 beam angle)	19°	22°	73°	19°	22°	73°
Light Distribution Angle (1/10 beam angle)	35°	58°	98°	35°	58°	98°
Fixture Luminous Flux (at 220 V)	38,400 lm	39,600 lm	40,800 lm	35,200 lm	36,000 lm	36,800 lm
Energy Consumption	115 lm/W	118 lm/W	122 lm/W	105 lm/W	107 lm/W	110 lm/W

Adoption example


Sapporo Ryutsu System Co., Ltd. (Location: hokkaido)



Sapporo Ryutsu System Co., Ltd. (Location: Hokkaido)

Remarkably thin and light

LLF0058A

Compact but powerful

LLF0040A

Light that encourages fish growth

LLF0110A

LEDSHIGHBAY

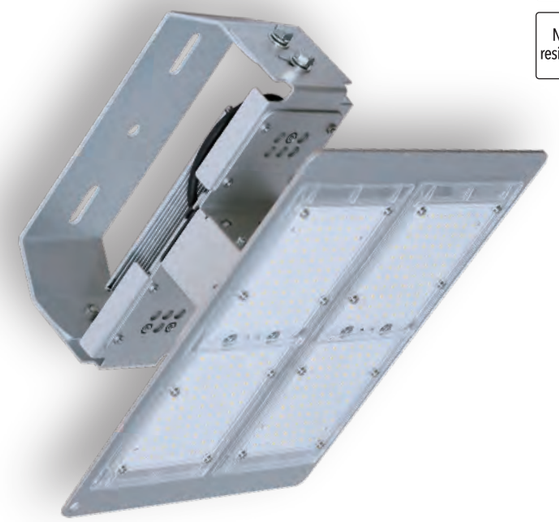
LED high bay lighting | LLF0058A

LED lighting under the eaves | LLF0040A

LED under eave lighting | LLF0110A

VIbration resistance 1G

Noise resistance

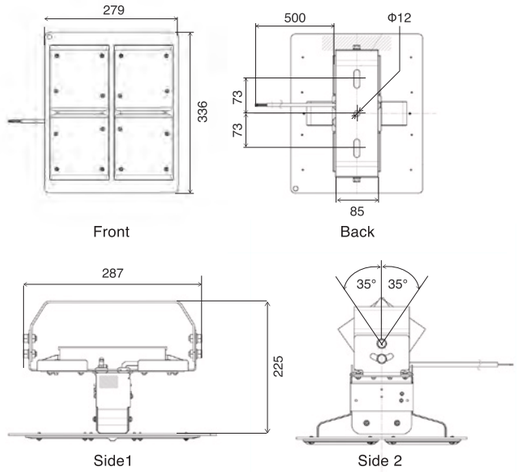


Specifiction

Body: Aluminum sheet metal
Input voltage: AC 90–305 V
Ambient temperature: -20–45 °C
Waterproof and dustproof: IP20
LED light source lifetime: 60,000 hours
(lumen maintenance factor 70%)
1/2 beam angle: 120°

Dimensions 2-module type (111 W)

Unit: mm



Built-in power supply

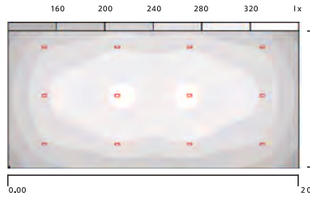
Excellent vibration resistance and a lightweight, thin body, making it ideal for ensuring brightness in factories, warehouses, etc.

We are able to achieve heat dissipation without needing heat radiation fins.
We adopted a design that makes the light-emitting part look thin when installed.
The housing structure uses aluminum yet is strong, making the product lightweight and giving it a unified color.

Innovative maintenance-free design	The body is thinner because we made the light-emitting part thin by not using the conventional radiation fin.
Lightweight	Helps reducing the person-hours needed for installation.
Angle adjustment	The angle of light can easily be adjusted after installation, because the range of motion of this fixture is 35° in both the right and left directions.
Wide range of input voltage	Supports voltages in the range of AC 90–305 V; usable in regions with unstable voltage.

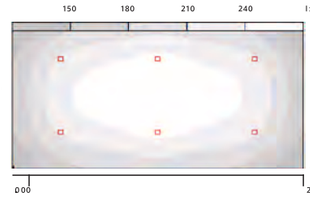
Simulation of Light Distribution

1 module 5000K



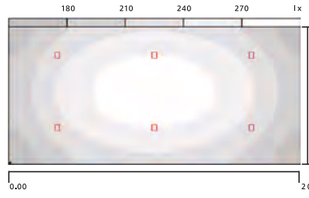
Computational Conditions
Installation height: 5 m
Reflectivity (ceiling, wall, floor): 30% 30% 10%
Maintenance factor: 0.8
Average illuminance: 255 lx
Number of lighting fixture: 12
Uniformity ratio of illuminance: 0.52

2 module 5000K



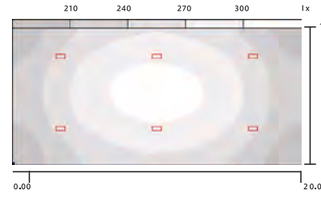
Computational Conditions
Installation height: 7 m
Reflectivity (ceiling, wall, floor): 30% 30% 10%
Maintenance factor: 0.8
Average illuminance: 211 lx
Number of lighting fixture: 6
Uniformity ratio of illuminance: 0.57

3 module 5000K



Computational Conditions
Installation height: 10 m
Reflectivity (ceiling, wall, floor): 30% 30% 10%
Maintenance factor: 0.8
Average illuminance: 233 lx
Number of lighting fixture: 6
Uniformity ratio of illuminance: 0.66

4 module 5000K



Computational Conditions
Installation height: 12 m
Reflectivity (ceiling, wall, floor): 30% 30% 10%
Maintenance factor: 0.8
Average illuminance: 257 lx
Number of lighting fixture: 6
Uniformity ratio of illuminance: 0.70

Part No.	LLF0058A/ 1400/01/G/IN/A	LLF0058A/ 1400/02/G/IN/A	LLF0058A/ 1400/03/G/IN/A	LLF0058A/ 1400/04/G/IN/A	LLF0058A/ 1400/01/C/IN/A	LLF0058A/ 1400/02/C/IN/A	LLF0058A/ 1400/03/C/IN/A	LLF0058A/ 1400/04/C/IN/A
Color Temp.	5000K				3000K			
Module Type	1	2	3	4	1	2	3	4
Power Consumption (at 220 V)	56 W	111 W	163 W	215 W	56 W	111 W	163 W	215 W
Fixture Luminous Flux	8,420 lm	16,850 lm	25,300lm	33,700 lm	8,000 lm	16,000 lm	24,000 lm	32,000 lm
Intrinsic Energy Consumption Efficiency (at 220V)	150 lm/W	152 lm/W	155 lm/W	157 lm/W	143 lm/W	144 lm/W	147 lm/W	148 lm/W
Weight	2.2 kg	2.8 kg	4.2 kg	5.7 kg	2.2 kg	2.9 kg	4.2 kg	5.7 kg

Adoption example


Inoue Unso
(introduced by Nagase & Co., Ltd)


Lights inside the pit of B-Quik, Thailand


Sapporo Ryutsu System Co., Ltd. (Location: Hokkaido)

Vlbration resistance 1G

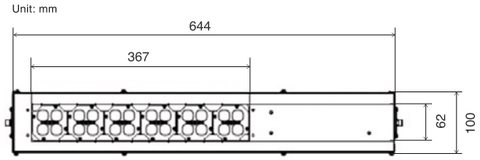
Noise resistance

Specifiction

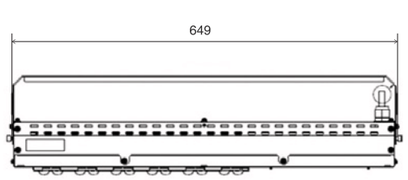
Color temperature: 5000K
Power consumption: 52 W (at 220 V)
Light source luminous flux: 5,760 lm (5000K)
Intrinsic energy consumption efficiency: 111 lm/W
Material: SECC
Input voltage: AC 90–305 V / rated voltage AC 100–277 V
Ambient temperature: -20–50 °C
Waterproof and dustproof: IP23
Variation of Lens: Narrow angle / Wide anglee / Meddle angle
Weight: 5 kg
Power supply: Built in
Lightning surge protection pressure resistance:
10 kV (Common mode)
LED light source lifetime: 40,000 hours
(lumen maintenance factor 70%)

Dimensions

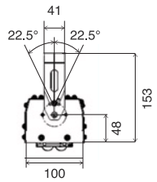
Unit: mm



Front



Top



Side

Adoption example

Sapporo Ryutsu System Co., Ltd. (Location: Hokkaido)

Sapporo Ryutsu System Co., Ltd. (Location: Hokkaido)

Lights inside the factory at Indonesia Stanley (Location: Banten, Indonesia)

Under eave lighting that combines wide light distribution and a high output in a convenient, compact body

The LED module used in this lighting is waterproof.
With a lens-based light distribution control, we achieved a light distribution that stretches along the long side of the product.
The fixture can be hidden, as the width of the product is small enough that it can be installed in wiring ducts.

Compact design	Designed to be as compact as the external dimension 650 x 100 x 153 mm (incl. arm).
Angle adjustment	The swing arm allows adjustment of the irradiation angle.
Wide variety of lenses	The optical lenses provide a wide range of lighting designs.

Noise resistance

Heavy salt resistance

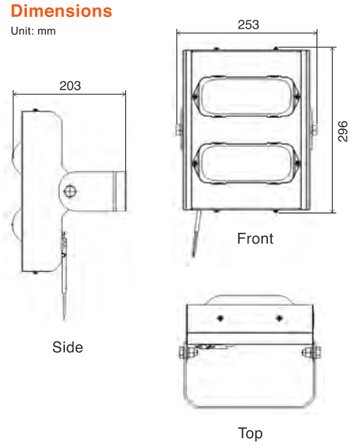
High waterproof IP65

Specifiction

Body: Aluminum sheet metal
Luminous color: Green, Red
Power consumption: 43 W (at Green AC 100 V)
Input voltage: AC 100–240 V
Light source luminous flux: 4,300 lm (Green)
Intrinsic energy consumption efficiency: 100 lm/W (Green)
Ambient temperature: -10–35 °C
Weight: 3 kg
Waterproof and dustproof: IP65
LED light source lifetime: 40,000 hours
(lumen maintenance factor 70%)
Power supply: Separate

Dimensions

Unit: mm



Color variations

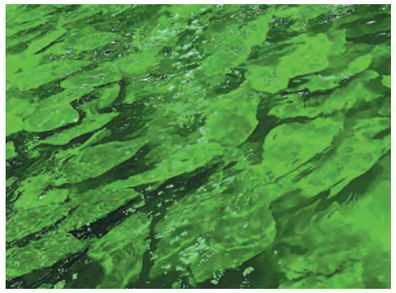
Light that can accelerate fish growth

The use of this lighting in fish farming can shorten the time from the start of farming to shipping.
This lighting has been proven effective by universities and fishery research institutes.

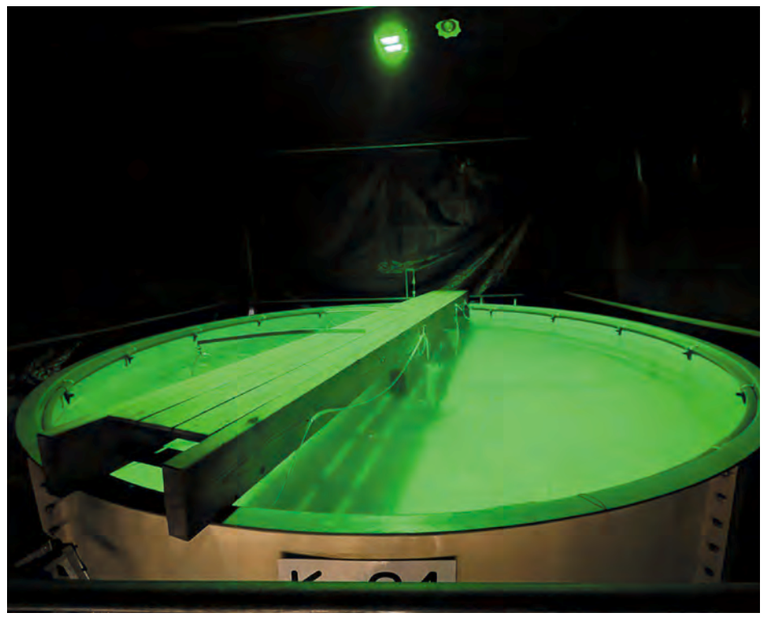
Acceleration of fish growth	The use of this lighting in fish farming allows fish to eat more food than usual and thus grow faster.
Color variations	The main color is green, which has a proven track record of promoting growth in flounder species. Red is also available, allowing you to choose the lighting color according to the species you wish to grow.
Waterproof and dustproof structure	IP65 for environments exposed to water.

Adoption example


Towa Suisan Co., Ltd. in Saiki, Oita Prefecture




Chiba Prefectural Fisheries Research Center



LED Graphic Unit

Option

Specifiction

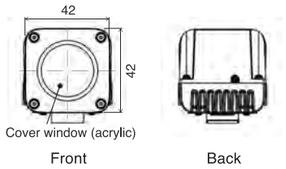
External Dimensions: 42 mm (H) x 42 mm (W) x 139 mm (L)

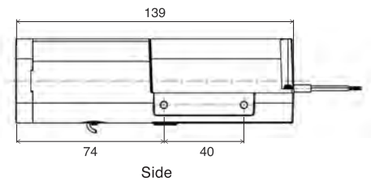
Luminous color	Green	White	Blue	Amber	Red
Power consumption	6.3 W (typ)				5.0 W (typ)
Illuminance (When irradiated at 1 m in front)	1500 lx	980 lx	85 lx	570 lx	390 lx

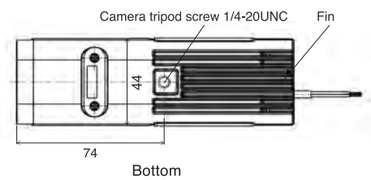
Driving voltage: DC 24 V
Please consult separately for DC 12 V.
Operating temperature range: -20～50°C
Weight: approx. 350 g (excluding optional stay)
Flashing: 0.9sec、0.6sec、0.3sec

Dimensions

Unit: mm







Compact LED Graphic Unit that can smartly illuminate letters and designs with light

This product realizes smart alerts and indicates points of emphasis with optical drawings.
Low power consumption and a compact design means it can be incorporated.
Multiple drawing designs available to accommodate a variety of situations.

High visibility drawing with compact body	High light use efficiency enables bright, highly visible images despite its compact size. Low power consumption enables integration into a variety of devices.
Focus-free	No need to adjust the focus.
Selectable drawing designs	Drawing designs can be selected from multiple options.

Displayed designs

Standard product	Optional products
	

Usage ideas

■ Emphasize accessibility indications

■ Indicate transport vehicles' direction of travel for safety purposes in factory or warehouse

■ Saving person-hours for information guidance, etc.

1 LEDSFOCUS Landscape Lighting

■LEDSFOCUS PRO ■LED foodlight (ultra narrow angle–medium angle light distribution) ■LLF0111A/LWWDO65 ■LLF0111A ■LLF0112A ■LLF0113A

NEW

LLF0111A / LWWD065

FULL COLOR & Dimmable Type

Description of part No. LLF0111A / LWWD065 / F1X / □□ / S / BK / □ / C / □□ / 1
(a, b, c, d)

● Full color type

a	Light distribution angle	05 : 5°, 10 : 10° , 20 : 20° , 30 : 30°
b	Body color	BK: Charcoal gray
c	Control	G: DMX dimmable (Curve Linear), T: DMX dimmable (Curve Linear, with termination resistance)
d	Standards	UL: UL/cUL, CE: CE/PSE

LLF0111A

Description of part No. LLF□□□□A / □□□□□□□ / □□ / □ / □□ / □ / BK / □ / □ / □□ / □
(a, b, c, d, e, f, g, h, i, j, k)

● Narrow angle type

a , b	Main type	LLF0111A / LWWD035, LLF0112A / MWWD017, LLF0113A / SWWD007
c , d	Color of light source	22/X: 2200K, 27/X: 2700K, 30/X: 3000K, 40/X: 4000K, 50/X: 5000K, 57/X: 5700K, 65/X: 6500K, RE/N: Red, GR/N:Green, BL/N: Blue, YE/N: Gold
e	Light distribution angle	XN: Extra Narrow 1.5°, VN: Very Narrow 2.5°, 03 : 3°, 04 : 4°, 05 : 5°, 06 : 6°, 07 : 7°, 08 : 8°, 09 : 9°
f	Installation type	S: Standard installation
g	Body color	BK: Charcoal gray
h	Control	S: On/Off control, C: DALI dimmable [Curve: Log], F: DALI dimmable [Curve: Linear], D: DMX dimmable [Curve: Log], G: DMX dimmable [Curve: Linear] (LLF0113A On/Off only)
i	Coating	C: Heavy salt resistance
j	Standards	CE: CE/PSE (Blue conform only CE standard.), TS : TIS
k	Version No.	1: Version 1

LLF0112A

● Medium angle type

a , b	Main type	LLF0111A / LWWD056, LLF0112A / MWWD028, LLF0113A / SWWD010
c , d	Color of light source	22/X: 2200K, 27/X: 2700K, 30/X: 3000K, 40/X: 4000K, 50/X: 5000K, 57/X: 5700K, 65/X: 6500K, YE/N: Gold
e	Light distribution angle	10 : 10° , 20 : 20° , 30 : 30° , 50 : 50°
f	Installation type	S: Standard installation
g	Body color	BK: Charcoal gray
h	Control	S: On/Off control, C: DALI dimmable [Curve: Log], F: DALI dimmable [Curve: Linear], D: DMX dimmable [Curve: Log], G: DMX dimmable [Curve: Linear] (LLF0113A On/Off only)
i	Coating	C: Heavy salt resistance
j	Standards	CE: CE/PSE (2200K conform only PSE standard.), TS : TIS
k	Version No.	1: Version 1

LLF0113A

■LEDSFOCUS ■LED floodlight with ultra-narrow light distribution ■LLM0545A

LLM0545A

Part No.	1/2 beam angle	Color	UL	CE	PSE
LLM0545A_UZ / FLOODLIGHT23	2.5°	3000K	○	○	—
LLM0545A_UZ / FLOODLIGHT24		4000K	○	○	—
LLM0545A_UZ / FLOODLIGHT265		6500K	○	○	—
LLM0545A_UZ / FLOODLIGHT26		Red	○	○	—
LLM0545A_UZ / FLOODLIGHT27		Green	○	○	—
LLM0545A_UZ / FLOODLIGHT28		Blue	○	○	—
LLM0545A_UE / FLOODLIGHT32	3°	2200K	○	○	—
LLM0545A_UE / FLOODLIGHT33		3000K	○	○	—
LLM0545A_UE / FLOODLIGHT34		4000K	○	○	—
LLM0545A_UE		5700K	○	○	—
LLM0545A_UE / FLOODLIGHT36		Red	○	○	—
LLM0545A_UE / FLOODLIGHT37		Green	○	○	—
LLM0545A_UE / FLOODLIGHT38		Blue	○	○	—
LLM0545A_UE / FLOODLIGHT39		Amber	○	○	—
LLM0545A_UG / FLOODLIGHT53	5°	3000K	○	○	—
LLM0545A_UG / FLOODLIGHT54		4000K	○	○	—
LLM0545A_UG		5700K	○	○	—
● Option — LLM0545A / BRACKET2 Bracket			—	—	—	—
● Option — LLP0028A / MU040A070AQ (IP67) Power supply			—	—	—	—
● Option — LLM0545A-UZ / CABLE1 Cable 10 m			—	—	—	—

■LEDSFOCUS ■LED spotlight with ultra-narrow light distribution ■LLM0854A

LLM0854A

Part No.	1/2 beam angle	Color	UL	CE	PSE
LLM0854A / LIGHTING EQU30	2.5°	3000K	—	○	—
LLM0854A / LIGHTING EQU40		4000K	—	○	—
LLM0854A / LIGHTING EQU50		5000K	—	○	—
LLM0854A / LIGHTING EQU60		Red	—	○	—
LLM0854A / LIGHTING EQU70		Green	—	○	—
LLM0854A / LIGHTING EQU80		Blue	—	○	—
LLM0854A / LIGHTING EQU90		Amber	—	○	—
● Option — LLM0854A / BRACKET3 Bracket			—	—	—	—

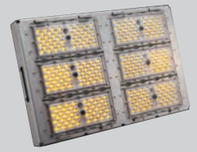
●UL, CE, PSE, TIS: We update the evaluation contents of our products as necessary in accordance with revisions to compatible standards and technical standards. Depending on the situation, evaluations may not have been completed in accordance with the latest compatible standards or technical standards.

■LEDSFOCUS GOLD ■LED floodlight with ultra-narrow light distribution ■LLM0545A

LLM0545A

Part No.	1/2 beam angle	Color	UL	CE	PSE
LLM0545A_UB / FLOODLIGHT40	4×3° (ellipse)	Gold	—	○	—

■LEDSFOCUS GOLD ■Outdoor LED floodlight ■LLF0059A



LLF0059A

Part No.	1/10 beam angle	Color	UL	CE	PSE
LLF0059A / 1492 / 06 / O / I / U / O	Wide angle 100°	Gold	—	○	○
LLF0059A / 1493 / 06 / O / I / U / O	Medium angle 50°	Gold	—	○	○
LLF0059A / 1494 / 06 / O / I / U / O	Narrow angle 26°	Gold	—	○	○

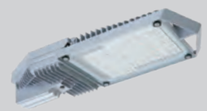
■LEDSFOCUS LINE ■LED linear lighting ■LLM1389A

LLM1389A

Part No.	1/2 beam angle	Color	UL	CE	PSE
LLM1389A / LIGHTING EQU30	2.5°	3000K	—	○	—
LLM1389A / LIGHTING EQU40		4000K	—	○	—
LLM1389A / LIGHTING EQU50		5000K	—	○	—
LLM1389A / LIGHTING EQU60	2.8°	Red	—	○	—
LLM1389A / LIGHTING EQU70	2.5°	Green	—	○	—
LLM1389A / LIGHTING EQU80		Blue	—	○	—
LLM1389A / LIGHTING EQU90	2.8°	Amber	—	○	—
● Option — LLM0854A / BRACKET3 Bracket			—	—	—	—

2 LEDSROAD Road Lighting

■LEDSROAD ■LED road lighting ■LLF0016A



LLF0016A

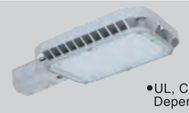
Part No.	Power consumption (W) at 220 V	Light source luminous flux (lm)	Color temperature	TIS	CE	PSE
LLF0016A/LEN1/56/E/IN/A	117	15,000	4000K	○	—	—
LLF0016A/LEN2/56/E/IN/A				○	—	—
LLF0016A/LEN3/56/E/IN/A				○	—	—
LLF0016A/LEN4/56/E/IN/A				○	—	—
LLF0016A/LEN4/64/E/IN/A	134	17,200		○	—	—
LLF0016A/LEN1/72/E/IN/A	150	19,400		○	—	—
LLF0016A/LEN2/72/E/IN/A				○	—	—
LLF0016A/LEN3/72/E/IN/A				○	—	—
LLF0016A/LEN4/72/E/IN/A				○	—	—
LLF0016A/LEN1/76/E/IN/A	159	20,400		○	—	—
LLF0016A/LEN2/76/E/IN/A				○	—	—
LLF0016A/LEN3/76/E/IN/A				○	—	—
LLF0016A/LEN4/76 /E/IN/A				○	—	—
LLF0016A/LEN1/80/E/IN/A	167	21,500		○	—	—
LLF0016A/LEN2/80/E/IN/A				○	—	—
LLF0016A/LEN3/80/E/IN/A				○	—	—
LLF0016A/LEN4/80/E/IN/A				○	—	—
LLF0016A/LEN1/96/E/IN/A	202	25,800		○	—	—
LLF0016A/LEN2/96/E/IN/A				○	—	—
LLF0016A/LEN3/96/E/IN/A				○	—	—
LLF0016A/LEN4/96/E/IN/A				○	—	—

■LEDSROAD ■LED road lighting ■LLF0139A

LLF0139A

Part No.	Power consumption (W) at 220 V	Light source luminous flux (lm)	Color temperature	TIS	CE	PSE
LLF0139A/LEN1/120/E/IN/A	121	14,000	4000K	○	—	—
LLF0139A/LEN1/144/E/IN/A	140	16,700		○	—	—
LLF0139A/LEN1/168/E/IN/A	167	19,700		○	—	—

■LEDSROAD ■LED road lighting ■LLF0017A



LLF0017A

Part No.	Power consumption (W) at 220 V	Light source luminous flux (lm)	Color temperature	TIS	CE	PSE
LLF0017A/LEN1/72/E/IN/A	42	5,300	4000K	○	—	—
LLF0017A/LEN1/80/E/IN/A	70	8,400		○	—	—
LLF0017A/LEN1/104/E/IN/A	90	11,000		○	—	—

●UL, CE, PSE, TIS: We update the evaluation contents of our products as necessary in accordance with revisions to compatible standards and technical standards. Depending on the situation, evaluations may not have been completed in accordance with the latest compatible standards or technical standards.

3 LEDSHIGHMAST Special Outdoor Lighting

■LEDSHIGHMAST ■Outdoor LED floodlight ■LLF0059A


LLF0059A

Part No.	1/10 beam angle	Color	TIS	CE	PSE
LLF0059A/1450/06/J/1/D/N	Wide angle 100°	5700K	○	○	○
LLF0059A/1451/06/1/1/D/N	Medium angle 50°		○	○	○
LLF0059A/1452/06/J/1/D/N	Narrow angle 26°		○	○	○
LLF0059A/1453/06/E/1/D/N	Wide angle 100°	4000K	○	○	○
LLF0059A/1454/06/E/1/D/N	Medium angle 50°		○	○	○
LLF0059A/1455/06/E/1/D/N	Narrow angle 26°		○	○	○
LLF0059A/1456/06/C/1/D/N	Wide angle 100°	3000K	○	○	○
LLF0059A/1457/06/C/1/D/N	Medium angle 50°		○	○	○
LLF0059A/1458/06/C/1/D/N	Narrow angle 26°		○	○	○

■LEDSHIGHMAST ■Outdoor LED floodlight ■LLF0011A


LLF0011A

Part No.	1/2 beam angle	Color temperature	UL	CE	PSE
LLF0011A/FLOODLIGHT 1	Wide angle 72°	5000K	—	○	○
LLF0011A/FLOODLIGHT 3	Narrow angle 19°		—	○	○

■LEDSHIGHMAST ■Outdoor LED floodlight ■LLF0012A


LLF0012A

Part No.	1/2 beam angle	Color temperature	UL	CE	PSE
LLF0012A/FLOODLIGHT 1 (horizontal)	Wide angle 73°	5000K	—	○	○
LLF0012A/FLOODLIGHT 2 (horizontal)	Medium angle 22°		—	○	○
LLF0012A/FLOODLIGHT 3 (horizontal)	Narrow angle 19°		—	○	○
LLF0012A/FLOODLIGHT 13 (horizontal)	Wide angle 73°	3000K	—	○	○
LLF0012A/FLOODLIGHT 23 (horizontal)	Medium angle 22°		—	○	○
LLF0012A/FLOODLIGHT 33 (horizontal)	Narrow angle 19°		—	○	○

※Direct mounting bracket type is product name-2. ●Option LLP0060A/EUD-480S140 DV (CE/PSE)

4 LEDSHIGHBAY Indoor Maintenance-Free Lighting

■LEDSHIGHBAY ■LED high bay Lighting ■LLF0058A


LLF0058A

Part No.	Modules	Power Consumption (W) at 220 V	Color temperature	TIS	CE	PSE
LLF0058A/1400/01/C/IN/A	1	56	3000K	○	○	○
LLF0058A/1400/02/C/IN/A	2	111		○	○	○
LLF0058A/1400/03/C/IN/A	3	163		○	○	○
LLF0058A/1400/04/C/IN/A	4	215		○	○	○
LLF0058A/1400/01/G/IN/A	1	56	5000K	○	○	○
LLF0058A/1400/02/G/IN/A	2	111		○	○	○
LLF0058A/1400/03/G/IN/A	3	163		○	○	○
LLF0058A/1400/04/G/IN/A	4	215		○	○	○

■LEDSHIGHBAY ■LED under eave lighting ■LLF0040A


LLF0040A

Part No.	Beam angle	Power Consumption (W) at 220 V	Color temperature	TIS	CE	PSE
LLF0040A/1348/06/G/IN/0	Wide angle	52	5000K	○	—	○
LLF0040A/1350/06/G/IN/0	Medium angle			○	—	○
LLF0040A/1349/06/G/IN/0	Narrow angle			○	—	○
LLF0040A/1348/06/G/IN/A	Wide angle			○	○	—
LLF0040A/1350/06/G/IN/A	Medium angle			○	○	—
LLF0040A/1349/06/G/IN/A	Narrow angle			○	○	—

■LEDSHIGHBAY ■LED lighting for fish farming ■LLF0110A


LLF0110A

Part No.	Color	Power consumption	UL	CE	PSE
LLF0110A/LIGHTING EQU1	Red	34 W (Red at AC 100 V)	—	—	○
LLF0110A/LIGHTING EQU2	Green	43 W (Green at AC 100 V)	—	—	○

5 LEDS HIGHLIGHT LED Graphic Unit

■LEDS HIGHLIGHT ■LED graphic unit ■LLF0110A


LLM1546A

Part No.	Light source color	Flashing interval (sec)
LLM1546A/LIGHTING EQU1	Green	0.9
LLM1546A/LIGHTING EQU2		0.6
LLM1546A/LIGHTING EQU3		0.3
LLM1546A/LIGHTING EQU4	White	0.9
LLM1546A/LIGHTING EQU5		0.6
LLM1546A/LIGHTING EQU6		0.3
LLM1546A/LIGHTING EQU7	Blue	0.9
LLM1546A/LIGHTING EQU8		0.6
LLM1546A/LIGHTING EQU9		0.3
LLM1546A/LIGHTING EQU10	Amber	0.9
LLM1546A/LIGHTING EQU11		0.6
LLM1546A/LIGHTING EQU12		0.3
LLM1546A/LIGHTING EQU13	Red	0.9
LLM1546A/LIGHTING EQU14		0.6
LLM1546A/LIGHTING EQU15		0.3

●UL, CE, PSE, TIS: We update the evaluation contents of our products as necessary in accordance with revisions to compatible standards and technical standards. Depending on the situation, evaluations may not have been completed in accordance with the latest compatible standards or technical standards.

※Some of the circles (○'s) in CE and PSE show on-going plans.

Precautions for Use

WARNING

Failure to observe the instructions can result in death or serious injury.

- When conducting maintenance of the product, follow the instruction manual. Failure to do so can result in the product falling, electric shock, or fire.
- When conducting maintenance of the product, be sure to turn off the power. Failure to do so can result in electric shock.
- Do not repair, dismantle, or modify the product on your own. Doing so can result in the product falling, electric shock, or fire.
- The light source uses LED of high brightness. Do not look directly at the light source part.

CAUTION: ELECTRIC SHOCK

Replacement of the lighting fixture's light source or power source should be conducted only by the manufacturer, agent(s) on behalf of the manufacturer, or personnel with equivalent qualification.

CAUTION

Failure to observe the instructions can result in risk of injury.

- Lighting fixtures work only within a certain lifetime.
- When conducting maintenance of the product, be sure to turn off the power and to wait until it cools down enough. Failure to do so can result in burns.
- High temperatures shorten the product's life.
- In case of any sign of abnormality, turn off the power immediately and contact the distributor even if it is within the lifetime. Use under abnormal conditions may result in fire or electric shock.
- Do not turn on the light during the daytime, unless it is a temporary lighting check during installation (outdoor use). Exposure to direct sunlight causes the lighting fixture to heat up, therefore turning it on will increase its inner temperature.
- In case of use in snowy areas, remove snow so that the lighting fixture does not get buried in snow (outdoor use).
- Cleaning the lenses once per year is recommended because the light may loose intensity when they are dirty. Brightness will be regained if stains are wiped off.
- For safety reasons, conduct a self check at least once a year.
- Have the product inspected at least every three years by a specialist such as an electrician or installer etc. (When more than three years has passed, inspection needs to be done thoroughly. Use under abnormal conditions may result in smoke, ignition, electric shock, or the product falling)
- Please note that LED dies have a natural tolerance in specification, therefore light color or brightness may vary even within lighting equipment of the same model number.

Maintenance

- Be sure to turn off the power switch before conducting maintenance of the fixture. The fixture remains hot shortly after it is turned off, so please wait some time (20-30 minutes) before conducting maintenance.
- When cleaning the outer surface of the fixture or the cover, wipe with a soft cloth that has been soaked in water or neutral soap suds and wrung well.
- Do not wipe with volatile products such as thinner or benzene or with acidic or alkaline solutions. Doing so may cause discoloration or deformation.
- Do not pour water over the fixture directly, for example, with a hose. Do not use a mop or deck brush for cleaning. It may cause inundation into the fixture or damage to the fixture.

Warranty

Please conduct an incoming inspection at your company promptly after delivery and make a quality judgement.
In case there is no issue brought up, it will be considered that a quality check has been conducted and the product has passed the incoming inspection.

- Please refer to the warranty card for the product's warranty period. The warranty covers solely the product delivery. Please do not claim other costs such as work wages for replacement operation or damage compensation.

- The warranty is not valid if the cause of damage is any of the following:

① Lack of care in use or mishandling.
② Repair done by the user or modification(s).
③ Use under unreasonable operating environment or conditions.
④ Natural disaster (fire, earthquake, typhoon) etc.
⑤ Condensation that occurred due to deviation from service temperature or storage temperature conditions described in the specifications.
⑥ Electrical stress such as excessive voltage surge including lightning strikes.

- In case the cause of damage cannot be determined, a consultation between both companies will be held.

- The intended use of the product s as a light source for lighting. We do not bear any responsibility for any damage incurred from usage other than the intended use.

Request for Exchange

- During the warranty period, please notify the distributor (construction store) of your purchase with an attachment that specifies the delivery date.

- After the warranty period, please consult with the distributor (construction store) of your purchase. A paid exchange is available upon request.

- For inquiries regarding after-sales service or for consultation about an exchange, please contact the shop (construction store) of your purchase or our assistance service below. Please be sure to specify the fixture name and the time of purchase.

Assistance Service

- For inquiries, please confirm the type of fixture indicated on the fixture's nameplate and contact us.
- Our contact information such as phone number is subject to change. Please confirm them on our website.

・Please note that appearance and specifications may be changed as part of improvements.
・Please note that, by nature of printed matter, the color of products shown here may differ slightly from the actual products.

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